

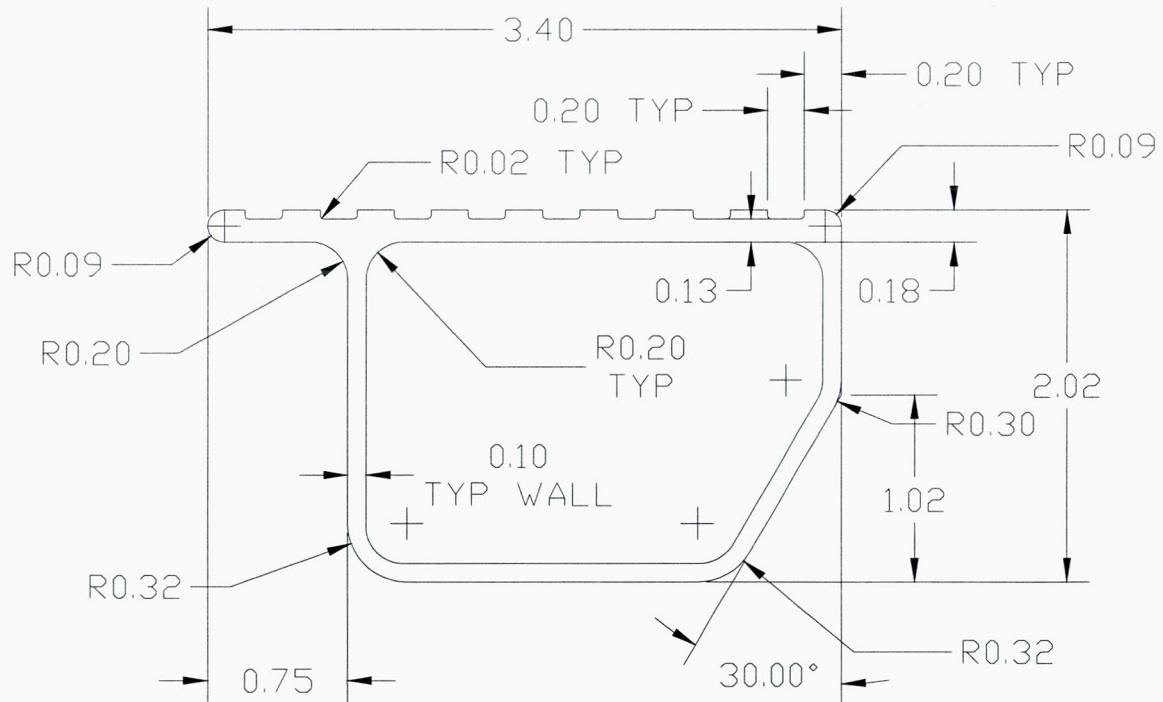
REV	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		07/02/08

NOTES

1. REFERENCE DRAWING - PROFILE AND MATERIAL
DESCRIPTION ONLY LENGTH AND OTHER

FEATURES TO BE DETAILED ON DRAWINGS

USING THIS REFERENCE.



1	78230	01	STEP EXTRUSION PROFILE	ALUM 6061-T6		
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY						

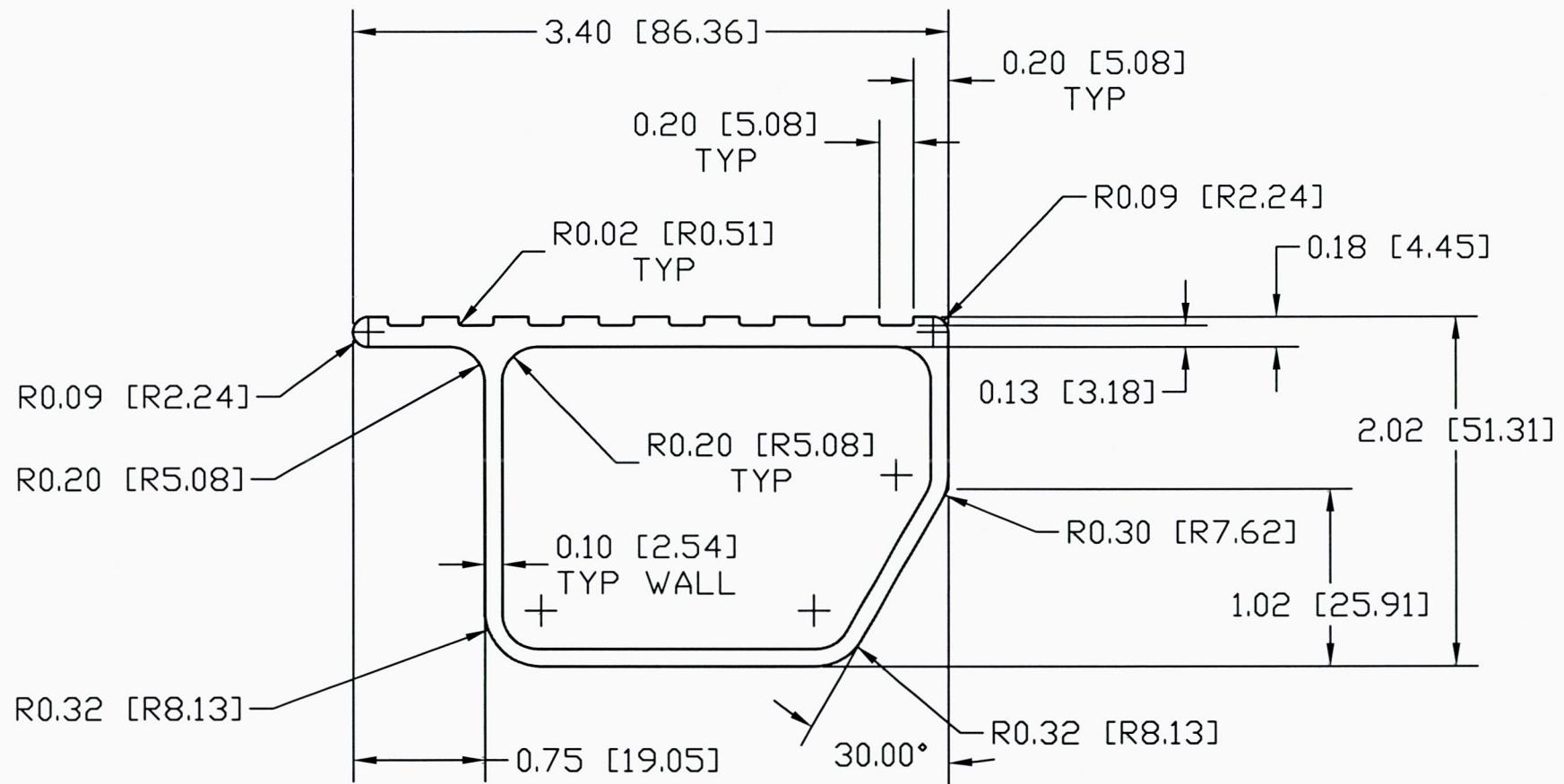
LIST OF MATERIALS

AERO DESIGN LTD.

CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M
2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7
tel: (403) 250-8027 fax: (403) 250-8333
www.aerodesign.ca

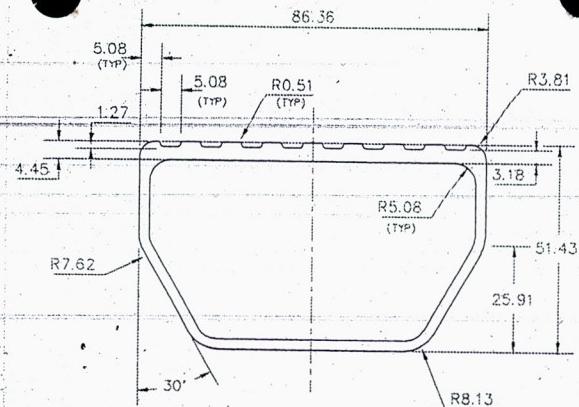
APPROVALS		DATE	STEP EXTRUSION PROFILE GEOMETRY		
DRAWN:	R. RATHWELL	07/02/08			
CHECKED:	E. BURGOIN				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ± 0.010 ±1/2°					
X.XX	± 0.03		SCALE 1 : 1	DWG. SIZE	DWG. NO.
X.X	± 0.1		A4	78230	REV. 0
SHEET 1 OF 1					

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IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING
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Step Extrusion - Modified - 1

EXPOSED ALL AROUND

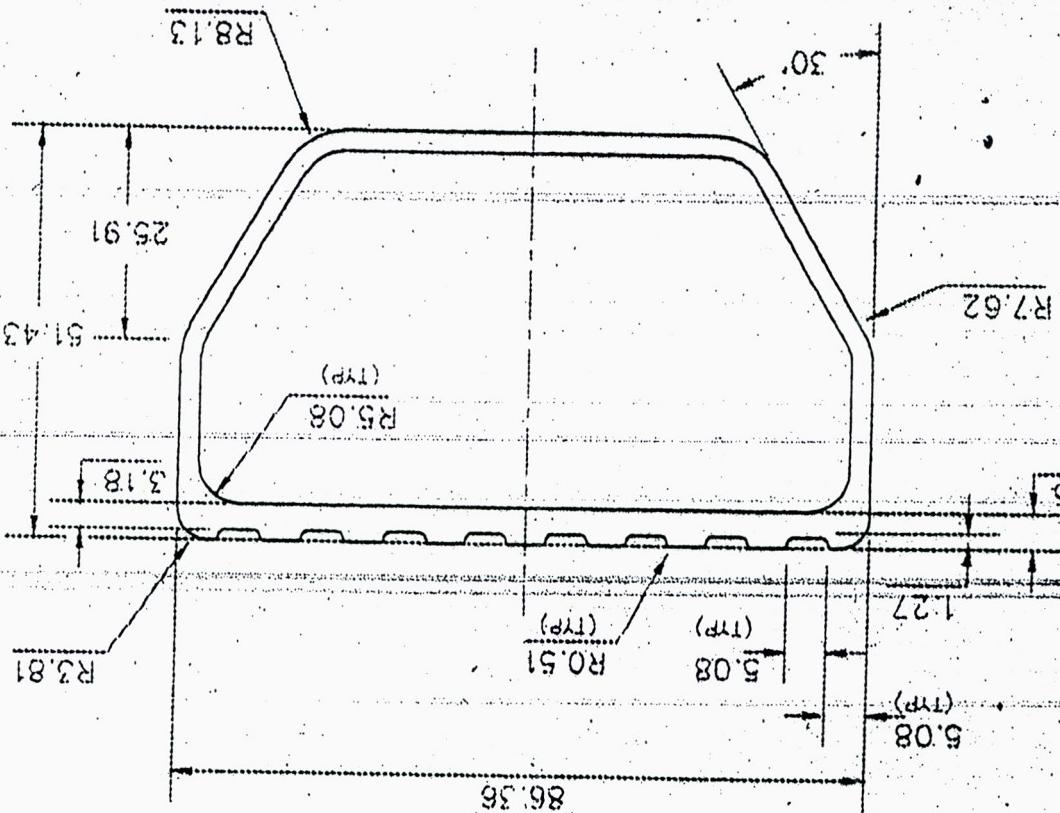


A C T U A L S I Z E

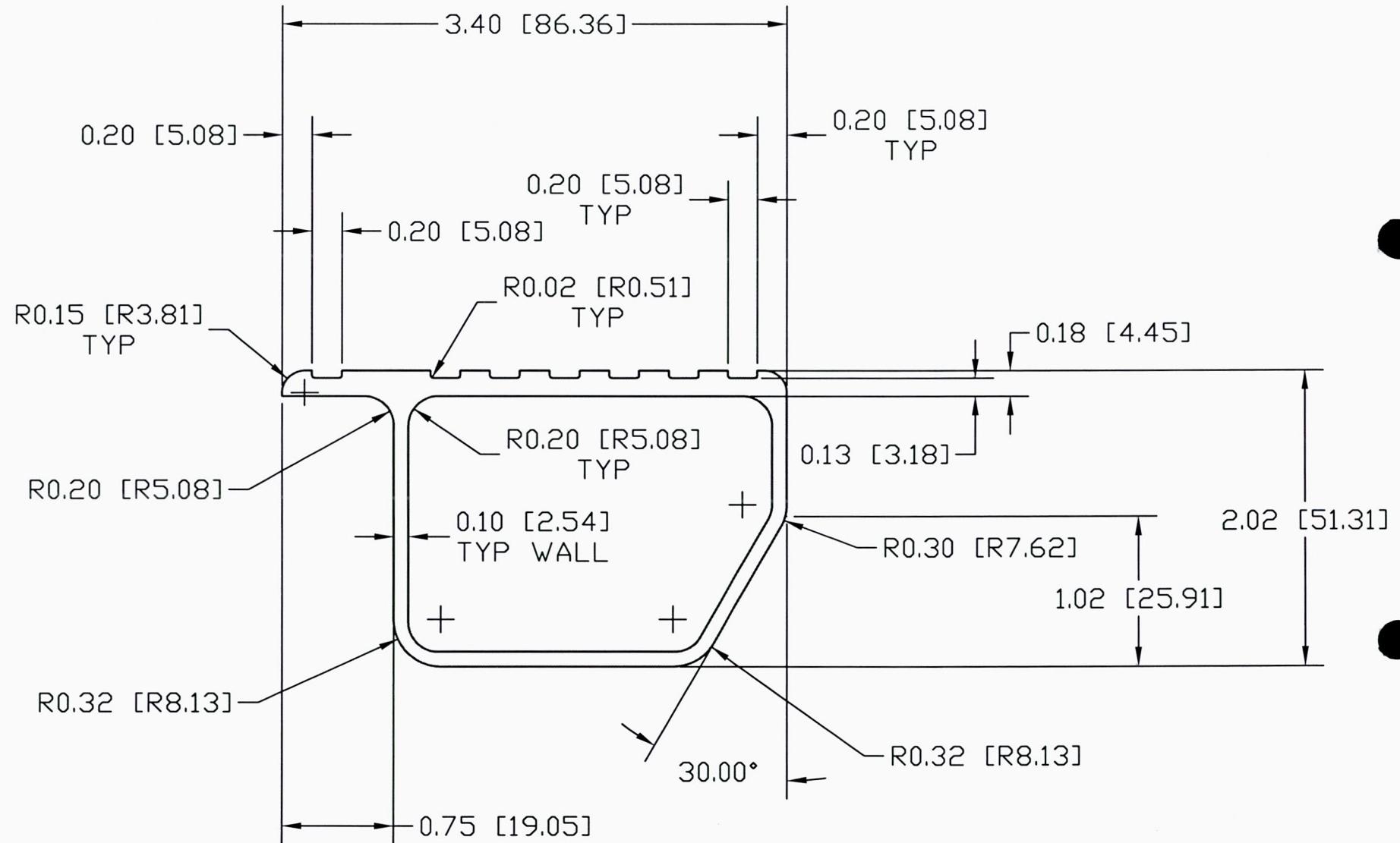
Caradon Indalex

WALL THICKNESS	1.00 IN 2.54 MM	EXCEPT AS SHOWN	PRILING	W1	CHECKING RADIUS	YED	LIP REINFORCE	YES
EST. AREA	1.22 IN ² 723.90 MM ²	BUT PER 10.308 IN 261.83 MM	BACKER SIZE		FEEDER SIZE			
EST. WT.	1,346 LBS/FT 1,963 KG/M	FACTOR 14 / 248	BACKER NO.		FEEDER NO.			
EST. PER 19.188 IN	487.38 MM	C.C.D. 3.487 IN 88.57 MM	BACKER NO. C1682		FEEDER NO. C9	CAV. 1		
DWN SY	ALLDY6061-T6	SCALE 1:1 DATE 97/9/11	PRPLY NO. 2		CONT'D 1/20	EXT. SATIN 38		
✓ BREAK ALL CORNERS .010" R (0.25R) UNLESS OTHERWISE NOTED.								
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED								

ACTUAL SIZE



EXPOSED ALL AROUND



step extrusion-modified_Φ



Invoice / Facture

Please Remit to/A Remettre à: S
P.O. Box 6447 Date
Station Terminal 2
Vancouver, BC
V6B 6R3
p: 1-866-213-2084 f: 1-866-245-2538

Shipped Date	Order No	Date
Date d'Expédiée	No de Commande	
2008/03/25	8021878	2008/03/25

INVOICE NO.

Aluminum Extrusions - Anodizing - Fabrication - Painting

Sold to / Vendu à

Ship to / Expédié à

AERO DESIGN LTD.
2013 - 39TH AVENUE N.E.
CALGARY, ALBERTA

Ship to / Expédié à
Same unless otherwise noted

T2E6R7

Alt

Cust No / No de Client 64032	XXXXXXXXXX	Cust Ord No/No Comm Client 8017	Terms / Conditions Net 30 Days	Packing Slip / Bon de Liv. 650494	
Salesrep/Vendeur 46	PST No / No du TVP 0%	Order Date/Date de Com 8/02/15	Our Dte/Notre Dte 8/02/15	FOB/FAB 05	Ship Via / Expédié par STINGRAY

TPS/GST: R136834041

Interest charges at 2% per month or 24% per annum on past due / Les taux d'intérêts sont de 2% par mois ou 24% annuellement sur factures en retard

Total Amount
Montant Total

CND DOLLARS

.00

Heli-Access-Step™

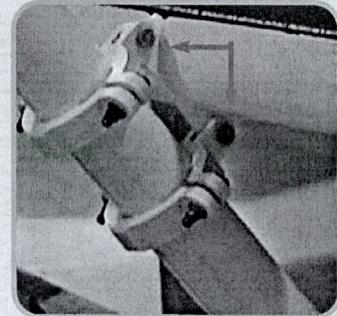
Bell 206/407/OH-58

Step right up, Ladies and Gentlemen!

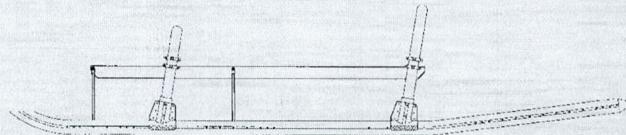
DART stepped up to the challenge in designing the *Heli-Access-Step™* for Bell, Eurocopter and Agusta aircraft.

DART recognized the industry need for lightweight steps that are strong and functional — steps you can depend on. **DART** steps are now standard equipment on new aircraft. **DART** offers a variety of steps for most types of aircraft.

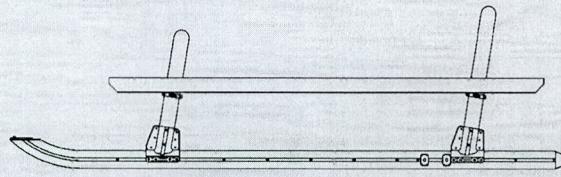
DART steps for the Bell 206, 407 and OH-58 are torsionally stiffer than other steps on the market. There will be no more rolling or rotating with these steps! They install on the crosstubes with a unique duplex clamping system that self-locks when weight is applied to prevent the step from slipping. Not only does the dual clamping system make installation a breeze, it also simplifies removal for inspection. And for even greater versatility, try our quick release pip pin kit.



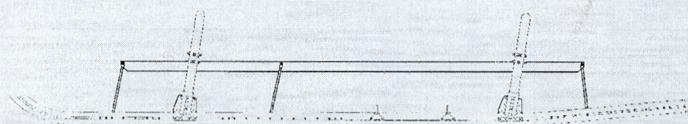
 Unique, secure
clamping system



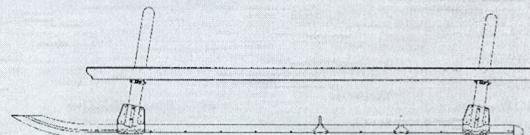
D206-628-013/-014



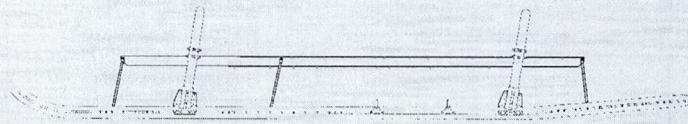
D206-628-011/-012



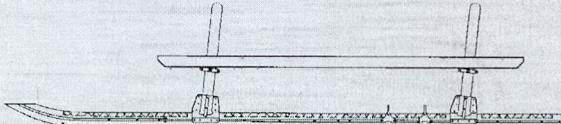
D206-628-023/-024



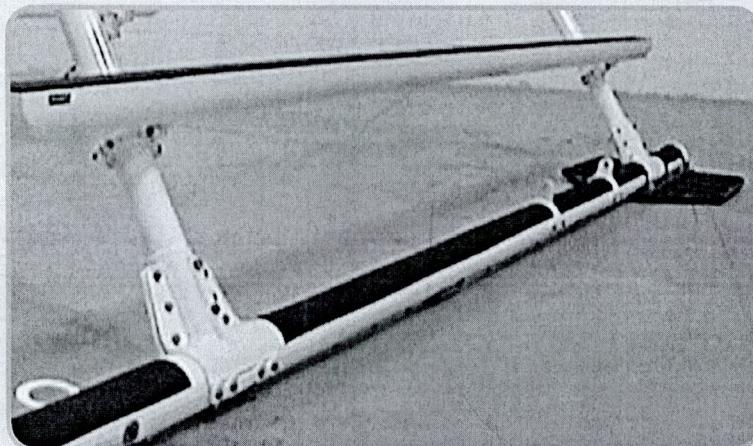
D206-628-021/-022/-031/-032



D206-628-033/-034



D058-677-011/-012/-013/-014



D206-628-021/-022



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ACCESS STEPS

Heli-Access-Step™

Bell 206/407/OH-58

Heli-Access-Step™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION	
Canada	SH98-14	206A/B/L/L1/L3/L4/407	Heli-Access-Step™	
USA	SA00500SE	206A/B/L/L1/L3/L4/407	Heli-Access-Step™	
USA	SR00915SE	OH-58A/A+/C	Heli-Access-Step™	
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.				
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME	
D206-628-011	Heli-Access-Step™ LH 206A/B	7.56 lb / 3.43 kg	2 hrs	
D206-628-012	Heli-Access-Step™ RH 206A/B	7.56 lb / 3.43 kg	2 hrs	
D206-628-013	Heli-Access-Step™ LH 206A/B	7.83 lb / 3.55 kg	2 hrs	
D206-628-014	Heli-Access-Step™ RH 206A/B	7.83 lb / 3.55 kg	2 hrs	
D206-628-021	Heli-Access-Step™ LH 206L/L1/L3/L4	9.79 lb / 4.44 kg	2 hrs	
D206-628-022	Heli-Access-Step™ RH 206L/L1/L3/L4	9.79 lb / 4.44 kg	2 hrs	
D206-628-023	Heli-Access-Step™ LH 206L/L1/L3/L4	11.66 lb / 5.29 kg	2 hrs	
D206-628-024	Heli-Access-Step™ RH 206L/L1/L3/L4	11.66 lb / 5.29 kg	2 hrs	
D206-628-031	Heli-Access-Step™ LH 407	9.79 lb / 4.44 kg	2 hrs	
D206-628-032	Heli-Access-Step™ RH 407	9.79 lb / 4.44 kg	2 hrs	
D206-628-033	Heli-Access-Step™ LH 407	11.66 lb / 5.29 kg	2 hrs	
D206-628-034	Heli-Access-Step™ RH 407	11.66 lb / 5.29 kg	2 hrs	
D058-677-011	Heli-Access-Step™ LH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-012	Heli-Access-Step™ RH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-013	Heli-Access-Step™ LH OH-58	7.80 lb / 3.55 kg	2 hrs	
D058-677-014	Heli-Access-Step™ RH OH-58	7.80 lb / 3.55 kg	2 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D206-628-011	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	206A/B	\$1,390.00
D206-628-012	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	206A/B	\$1,390.00
D206-628-013	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. OEM & Kwik float compatible Price is per side	206A/B	\$1,390.00
D206-628-014	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. OEM & Kwik float compatible Price is per side	206A/B	\$1,390.00
D206-628-021	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-022	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-023	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-024	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. Price is per side	206L/L1/L3/L4	\$1,531.00
D206-628-031	Heli-Access-Step™	LH - High gear. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-032	Heli-Access-Step™	RH - High gear. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-033	Heli-Access-Step™	LH - Float Compatible. Pip pin option available. Price is per side	407	\$1,531.00
D206-628-034	Heli-Access-Step™	RH - Float Compatible. Pip pin option available. Price is per side	407	\$1,531.00
DSI 9235-011	Quick Release Pip Pin Kit	Compatible with all D206-628 steps. Price is per step	206A/B/L/L1/L3/L4/407	Contact Sales
D058-677-011	Heli-Access-Step™	LH - High gear. Compatible with Aft crosstube p/n 206-052-109-3 (outside diameter 2.25) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-012	Heli-Access-Step™	RH - High Gear. Compatible with Aft crosstube p/n 206-052-109-3 (outside diameter 2.25) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-013	Heli-Access-Step™	LH - High gear. Compatible with Aft crosstube p/n 058-321-102 & 602-058-001 (outside diameter 2.5) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00
D058-677-014	Heli-Access-Step™	RH - High Gear. Compatible with Aft crosstube p/n 058-321-102 & 602-058-001 (outside diameter 2.5) or equivalent. Price is per side	OH-58A/A+/C	\$1,339.00

NORTH AMERICAN SALES 1-800-556-4166 • INTERNATIONAL SALES 1-246-420-7282

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

These steps for Bell medium aircraft (204/205/210/212/214/412/UH-1) attach to fuselage hardpoints. They're available in fixed and folding options, as well as for standard and extended height landing gear. They split the height difference between the aircraft floor and the ground.



**Low maintenance
and approved to be flown
deployed or stowed**

- **Heavy duty / folding / fixed**
- **Simplex / Isolair Tank compatible / OEM & Apical float compatible**
- **Compatible on low / high / extended height gear**



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ACCESS STEPS

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

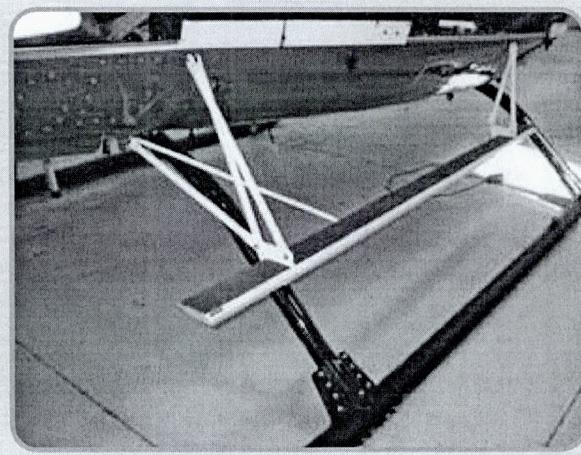
HELI-ACCESS-STEP™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	SH91-40	204B	<i>Heli-Access-Step™ D204-618</i>
USA	SR00505NY	204B	<i>Heli-Access-Step™ D204-618</i>
Canada	SH96-57	205A/205A1/205B/212/214B/ 214B1/412/412CF/ 412EP	<i>Heli-Access-Step™ D205-633</i>
USA	SR00592NY	214B/214B1	<i>Heli-Access-Step™ D205-633</i>
USA	SR00593NY	205A/205A1/205B	<i>Heli-Access-Step™ D205-633</i>
USA	SR00594NY	212/412/412CF/412EP/AB412/AB412EP	<i>Heli-Access-Step™ D205-633</i>
Germany	RC 1182	205A1/212/214B/214B1/412	<i>Heli-Access-Step™ D205-633</i>
Canada	SH96-69	205A/205A1/205B/212/214B/ 214B1/412/412CF/ 412EP	<i>Heli-Access-Step™ D412-630</i>
USA	SR00595NY	205A/205A1/205B	<i>Heli-Access-Step™ D412-630</i>
USA	SR00597NY	214B/214B1	<i>Heli-Access-Step™ D412-630</i>
USA	SR00598NY	212/412/412CF/412EP/AB412/AB412EP	<i>Heli-Access-Step™ D412-630</i>
Japan	STC-112-1-TYO	212/412/412EP	<i>Heli-Access-Step™ D412-630</i>
EASA	EASA.I.M.R.S.01204	205A/205A1/205B/212/214B/214B1/412/412EP	<i>Heli-Access-Step™ D412-630</i>

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
D204-618-011	<i>Heli-Access-Step™ high gear</i>	10.60 lb / 4.82 kg	3 hrs
D205-633-011	<i>Heli-Access-Step™ high gear</i>	14.00 lb / 6.35 kg	3 hrs
D205-633-013	<i>Heli-Access-Step™ 31" gear Isolair Tank Compatible</i>	14.30 lb / 6.49 kg	3hrs
D205-633-015	<i>Heli-Access-Step™ 39" gear Isolair Tank Compatible</i>	15.00 lb / 6.80 kg	3hrs
D205-633-017	<i>Heli-Access-Step™ low gear</i>	13.70 lb / 6.21 kg	3hrs
D205-633-021	<i>Heli-Access-Step™ LH high gear, Simplex Tank Compatible</i>	14.00 lb / 6.35 kg	3 hrs
D205-633-022	<i>Heli-Access-Step™ RH high gear, Simplex Tank Compatible</i>	13.20 lb / 6.00 kg	3hrs
D205-633-023	<i>Heli-Access-Step™ LH 31" gear, Simplex Tank Compatible</i>	14.30 lb / 6.49 kg	3hrs
D205-633-024	<i>Heli-Access-Step™ RH 31" gear, Simplex Tank Compatible</i>	13.50 lb / 6.14 kg	3hrs
D205-633-025	<i>Heli-Access-Step™ LH 39" gear, Simplex Tank Compatible</i>	14.60 lb / 6.64 kg	3hrs
D205-633-026	<i>Heli-Access-Step™ RH 39" gear, Simplex Tank Compatible</i>	13.80 lb / 6.27 kg	3hrs
D412-630-011	<i>Heli-Access-Step™ LH heavy duty, folding</i>	16.10 lb / 7.30 kg	3hrs
D412-630-012	<i>Heli-Access-Step™ RH heavy duty, folding</i>	16.10 lb / 7.30 kg	3hrs
D412-630-033	<i>Heli-Access-Step™ LH folding</i>	13.50 lb / 6.12 kg	3hrs
D412-630-034	<i>Heli-Access-Step™ RH folding</i>	13.50 lb / 6.12 kg	3hrs
D412-630-111	<i>Heli-Access-Step™ LH, heavy duty, fixed</i>	14.60 lb / 6.62 kg	3hrs
D412-630-112	<i>Heli-Access-Step™ RH, heavy duty, fixed</i>	14.60 lb / 6.62 kg	3hrs

See next 2 pages for pricing



D205-633-023

NORTH AMERICAN SALES 1-800-556-4166 • INTERNATIONAL SALES 1-246-420-7282

ACCESS STEPS

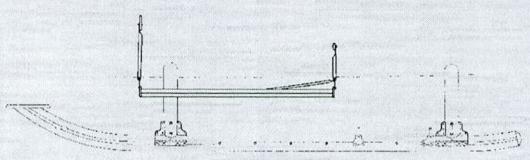


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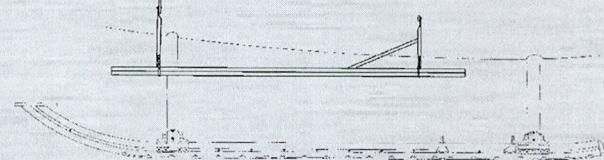
Heli-Access-Step™

Bell 205/210/212/214/412/UH-1

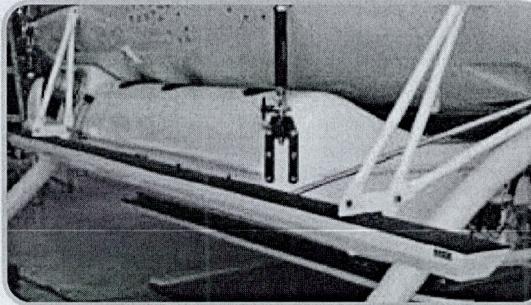
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D204-618-011	<i>Heli-Access-Step™</i> (Fits LH or RH)	High gear. Mounts to fuselage STA 74.25 & 123 Price is per side	204	\$2,175.00
D205-633-011	<i>Heli-Access-Step™</i> (Fits LH or RH)	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Price is per side	205/210/212/214/412/UH-1	\$2,175.00
D205-633-013	<i>Heli-Access-Step™</i> (Fits LH or RH) 31" Extended Height Gear Isolair Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Compatible with Isolair Tanks. Rated for 500 lb in flight. Price is per side	205/210/212/214/UH-1	\$2,525.00
D205-633-015	<i>Heli-Access-Step™</i> (Fits LH or RH) 39" Extended Height Gear Isolair Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Compatible with Isolair Tanks. Rated for 500 lb in flight. Price is per side	205/210/212/214/UH-1	\$2,525.00
D205-633-017	<i>Heli-Access-Step™</i> (Fits LH or RH) Low Gear	Low gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Price is per side	205/210/212/214/412/UH-1	\$2,195.00
D205-633-021	<i>Heli-Access-Step™</i> LH High Gear Simplex Tank Compatible	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/412/UH-1	\$3,295.00
D205-633-022	<i>Heli-Access-Step™</i> RH High Gear Simplex Tank Compatible	High gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/412/UH-1	\$3,295.00
D205-633-023	<i>Heli-Access-Step™</i> LH 31" Extended Height Gear Simplex Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-024	<i>Heli-Access-Step™</i> RH 31" Extended Height Gear Simplex Tank Compatible	31" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-025	<i>Heli-Access-Step™</i> LH 39" Extended Height Gear Simplex Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00
D205-633-026	<i>Heli-Access-Step™</i> RH 39" Extended Height Gear Simplex Tank Compatible	39" extended height gear. Mounts to fuselage at STA 63 & STA 129. Rated for 500 lb in flight. Simplex Model 304 Fire Attack Tank Compatible. Price is per side	205/210/212/214/UH-1	\$3,295.00



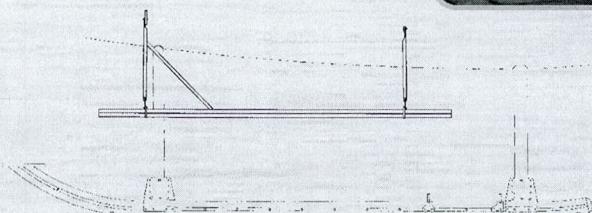
D204-618-011



D205-633-011



D205-633-021/-022
Compatible with
Simplex Water Tank

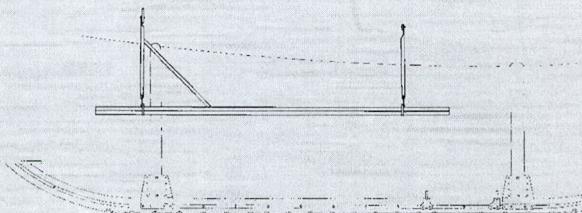


D205-633-021/-022 (standard high gear)

D205-633-023/-024 (fits 31" gear)

D205-633-025/-026 (fits 39" gear)

Compatible with Simplex Tank



D205-633-015 (fits 39" gear)

D205-633-013 (fits 31" gear)

Compatible with Isolair Tank

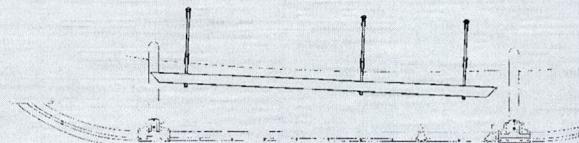


**helicopter
services**

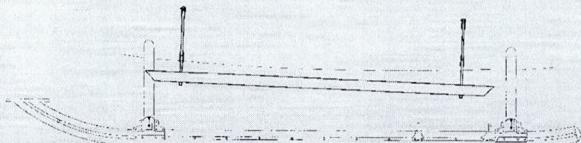
ACCESS STEPS

Heli-Access-Step™ Bell 204/205/210/212/214/412/UH-1

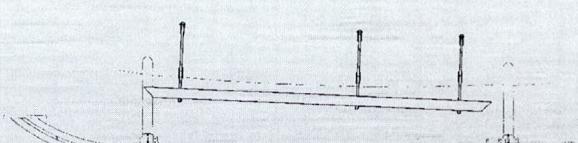
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D412-630-011	<i>Heli-Access-Step™ LH Heavy Duty, Folding</i>	Heavy duty, folding. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on Low & High Gear. Price is per side	205/210/212/214/412/UH-1	\$4,894.00
D412-630-012	<i>Heli-Access-Step™ RH Heavy Duty, Folding</i>	Heavy duty, folding. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on Low & High Gear. Price is per side	205/210/212/214/412/UH-1	\$4,894.00
D412-630-033	<i>Heli-Access-Step™ LH Folding</i>	Folding. Mounts to fuselage hardpoints at STA 84.29 & STA 155.06. Installs on Low & High Gear. OEM & Apical float compatible. Required equipment for the 614.7601 & 614.7602 Apical Tri-Bag Flotation Systems. (redesign of -023) Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-034	<i>Heli-Access-Step™ RH</i>	Folding. Mounts to fuselage hardpoints at STA 84.29 & STA 155.06. Installs on Low & High Gear. OEM & Apical float compatible. Required equipment for the 614.7601 & 614.7602 Apical Tri-Bag Flotation Systems. (redesign of -024) Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-111	<i>Heli-Access-Step™ LH Heavy Duty, Fixed</i>	Heavy duty, fixed. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06. Installs on High Gear. Price is per side	205/210/212/214/412/UH-1	\$5,439.00
D412-630-112	<i>Heli-Access-Step™ RH</i>	Heavy duty, fixed. Mounts to fuselage hardpoints at STA 84.29, STA 129.0 & STA 155.06 Installs on High Gear. Price is per side	205/210/212/214/412/UH-1	\$5,439.00



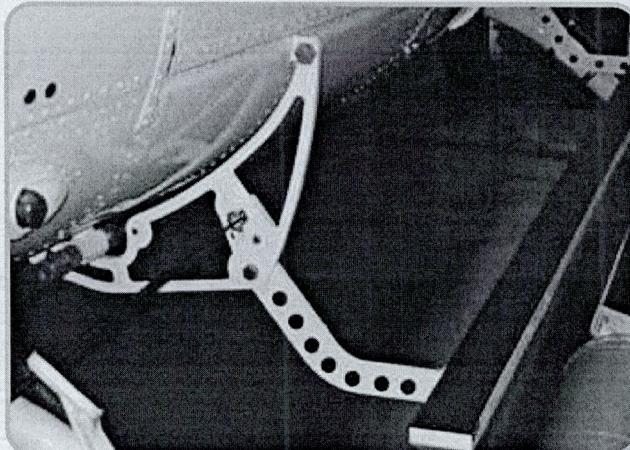
D412-630-011/-012



D412-630-033/-034



D412-630-111/-112



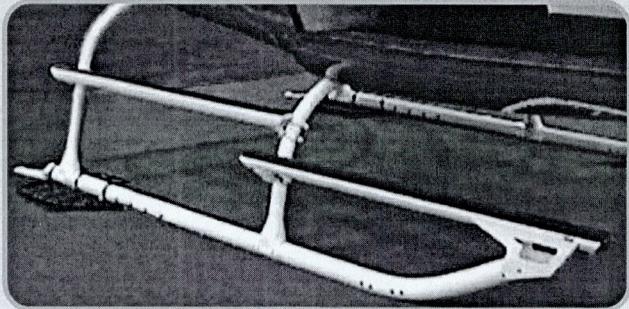
D412-630-033/-034
Float Compatible Step
(OEM & Apical)

Heli-Access-Step™**AS 350/AS 355**

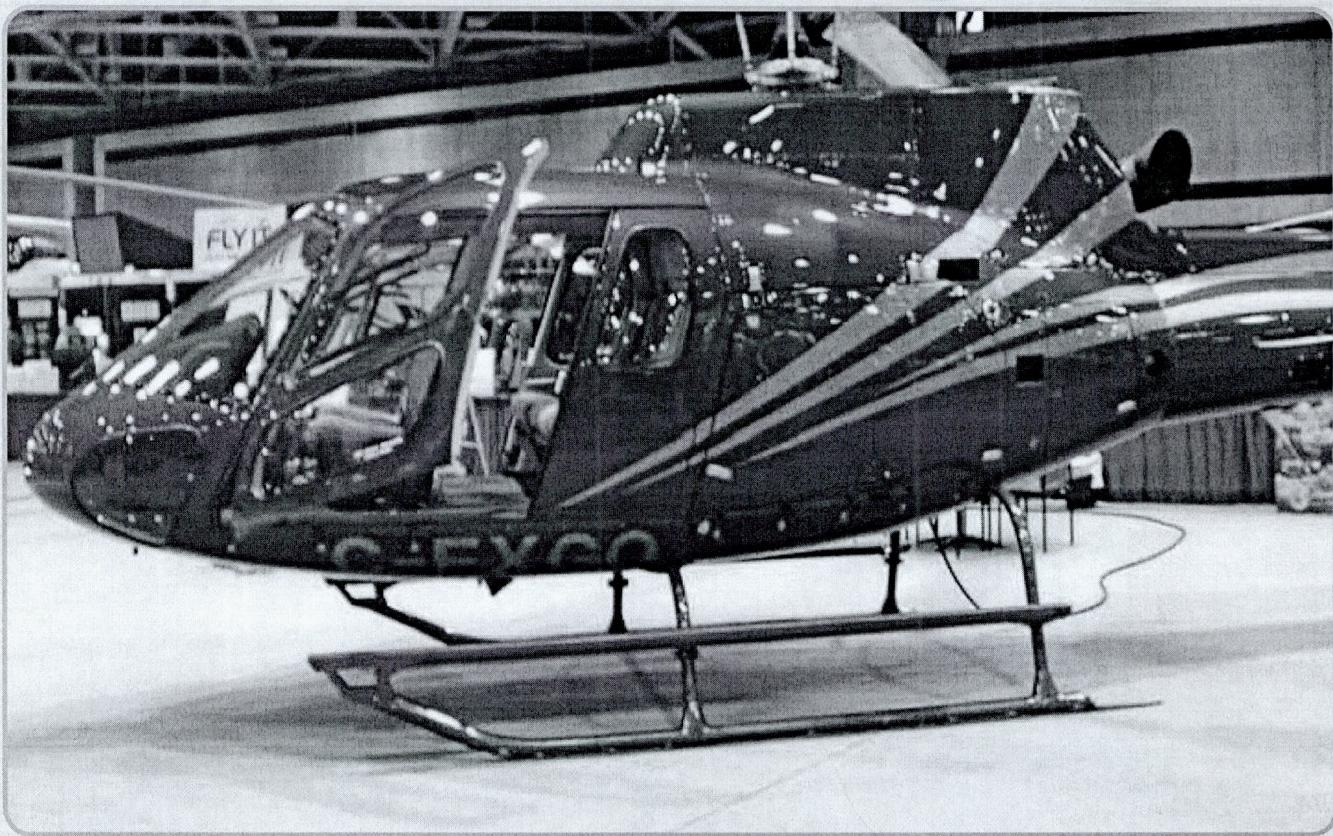
The **Heli-Access-Steps™** for the Eurocopter AS 350/AS 355 were designed to suit a number of landing gear configurations and operational needs. These steps are available in a variety of lengths and are compatible with the Air Cruiser or the Aerazur flotation systems.

The steps mount on the forward end of the Skidtube with a sheet metal enclosure and/or to the crosstubes using a reliable, lightweight support/clamping system.

These steps are just the ticket for safe, convenient and quick access. Your first step is to order a set.



D350-591-133 and D350-591-214





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ACCESS STEPS

Heli-Access-Step™

AS 350/AS 355

Heli-Access-Step™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	SH92-6	AS 350B/B1/B2/B3/BA/D/D1/AS 355E/F/F1/F2	Heli-Access-Step™
USA	SH967NE	AS 350B/B1/B2/B3/BA/C/D/D1/AS 355E/F/F1/F2/N	Heli-Access-Step™
France	157-SI-0930	AS 350 Series	Heli-Access-Step™
Germany	RC 1148	AS 350B/B1/B2/B3/BA/AS 355E/F/F1/F2	Heli-Access-Step™
Japan	STC-88-TYO	AS 350B/B1/B2/B3/BA/AS 355F/F1/F2	Heli-Access-Step™
Brazil	1999S02-01	AS 350B1/B2/B3/BA	Heli-Access-Step™
Brazil	1999S02-02	AS 355F/F1/F2/N	Heli-Access-Step™
Brazil	1999S02-03	AS 350B	Heli-Access-Step™
UK	27937	AS 350 Series	Heli-Access-Step™
UK	27938	AS 355 Series	Heli-Access-Step™
Eurocopter	350 A 08 4127	AS 350B2	Heli-Access-Step™
Canada	SH93-1	AS 350B/B1/B2/B3/BA/C/D/D1/AS 355E/F/F1/F2	Maintenance Step
USA	SR00600NY	AS 350B/B1/B2/B3/BA/C/D/D1/AS 355E/F/F1/F2	Maintenance Step
Canada	SH99-7	AS 350B/B1/B2/B3/BA/C/D/D1 / AS 355E/F/F1/F2	Toe Step
USA	SR00646SE	AS 350B/B1/B2/B3/BA/C/D/D1 / AS 355E/F/F1/F2/N	Toe Step
UK	28081	AS 350B/B1/B2/B3/BA	Toe Step
UK	28082	AS 355F/F1/F2/N	Toe Step

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
D350-591-311	Heli-Access-Step™ LH long step, high gear, Aerazur float compatible	12.00 lb / 5.40 kg	3 hrs
D350-591-312	Heli-Access-Step™ RH long step, high gear, Aerazur float compatible	12.00 lb / 5.40 kg	3 hrs
D350-591-213	Heli-Access-Step™ LH short step, high gear, Aerazur float compatible	6.30 lb / 2.88 kg	3 hrs
D350-591-214	Heli-Access-Step™ RH short step, high gear, Aerazur float compatible	6.30 lb / 2.88 kg	3 hrs
D350-591-215	Heli-Access-Step™ LH short step, low gear, Aerazur float compatible	5.90 lb / 2.70 kg	3 hrs
D350-591-216	Heli-Access-Step™ RH short step, low gear, Aerazur float compatible	5.90 lb / 2.70 kg	3 hrs
D350-591-117A	Pre-Flight Step	1.70 lb / 0.77 kg	1 hr
D350-591-133	Aft Maintenance Step	6.80 lb / 3.07 kg	1 hr
D350-615-041	GHW Modification Kit	N/A	1 hr
D350-591-121	Heli-Access-Step™ LH, short step, high gear, Air Cruiser float compatible	8.00 lb / 3.63 kg	3 hrs
D350-591-122	Heli-Access-Step™ RH, short step, high gear, Air Cruiser float compatible	8.00 lb / 3.63 kg	3 hrs
D350-591-123	Heli-Access-Step™ LH, short step, low gear, Air Cruiser float compatible	7.00 lb / 3.17 kg	3 hrs
D350-591-124	Heli-Access-Step™ RH, short step, low gear, Air Cruiser float compatible	7.00 lb / 3.17 kg	3 hrs
D350-721-045	Maintenance Step	1.00 lb / 0.45 kg	0.5 hrs
D350-721-046	Maintenance Step	1.00 lb / 0.45 kg	0.5 hrs
D350-636-101	Toe Step	1.00 lb / 0.50 kg	1 hrs

See next page for pricing



ACCESS STEPS



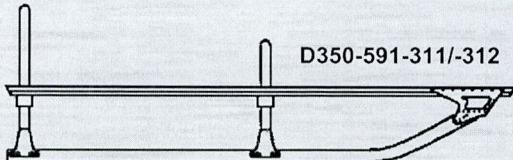
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Heli-Access-Step™

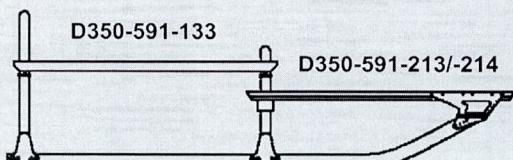
AS 350/AS 355

Heli-Access-Step™

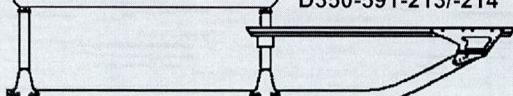
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D350-591-311	<i>Heli-Access-Step™ LH</i>	Long step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$2,135.00
D350-591-312	<i>Heli-Access-Step™ RH</i>	Long step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$2,135.00
D350-591-213	<i>Heli-Access-Step™ LH</i>	Short step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$1,385.00
D350-591-214	<i>Heli-Access-Step™ RH</i>	Short step, high gear. Aerazur float compatible. Price is per side	AS 350/AS 355	\$1,385.00
D350-591-215	<i>Heli-Access-Step™ LH</i>	Short step, low gear. Aerazur float compatible. Price is per side	AS 350	\$1,385.00
D350-591-216	<i>Heli-Access-Step™ RH</i>	Short step, low gear. Aerazur float compatible. Price is per side	AS 350	\$1,385.00
D350-591-117A	Pre-Flight Step (Fits LH or RH)	Installs on Aft crosstube. Price is per side	AS 350/AS 355	\$575.00
D350-591-133	Aft Maintenance Step (Fits LH or RH)	High gear. Price is per side	AS 350/AS 355	\$1,035.00
D350-615-041	GHW Modification Kit (Fits LH or RH)	For improved ground handling with D350-591-311/-312 steps. One kit modifies one set of ground handling wheels. Price is per side	AS 350/AS 355	\$575.00
D350-591-121	<i>Heli-Access-Step™ LH</i>	Short step, high gear. Air Cruiser float compatible. Price is per side	AS 350/AS 355	\$1,505.00
D350-591-122	<i>Heli-Access-Step™ RH</i>	Short step, high gear. Air Cruiser float compatible. Price is per side	AS 350/AS 355	\$1,505.00
D350-591-123	<i>Heli-Access-Step™ LH</i>	Short step, low gear. Air Cruiser float compatible. Price is per side	AS 350	\$1,505.00
D350-591-124	<i>Heli-Access-Step™ RH</i>	Short step, low gear. Air Cruiser float compatible. Price is per side	AS 350	\$1,505.00
D350-721-045	Maintenance Step LH	Install on Aft crosstube. Compatible with D350-721-041/-043 Lightweight Baskets. Price is per side	AS 350/AS 355	\$465.00
D350-721-046	Maintenance Step RH	Install on Aft crosstube. Compatible with D350-721-041/-043 Lightweight Baskets. Price is per side	AS 350/AS 355	\$465.00
D350-636-101	Toe Step	Mounts to Fwd end of skidtube. Recommended accessory for installation with Apical Floats. Compatible with D350-636-011/-012/-013/-014 DART Skidtubes. Compatible with 20707-100/-200 Apical Steps. Price is per side	AS 350/AS 355	\$315.00



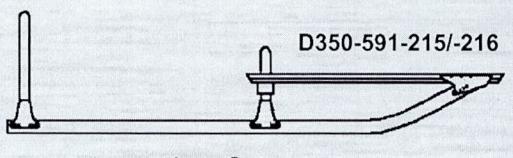
D350-591-311/-312



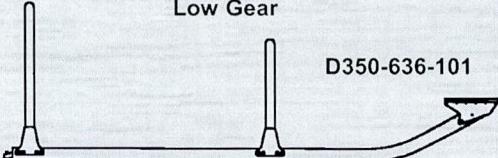
D350-591-133



D350-591-213/-214

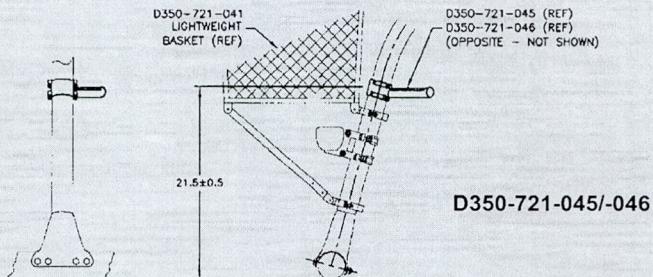


D350-591-215/-216

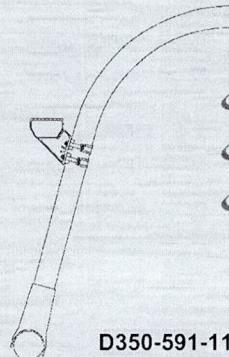


Low Gear

D350-636-101



D350-721-045/-046



D350-591-117A

- ✓ Easy to install
- ✓ Easy to maintain
- ✓ Lightweight

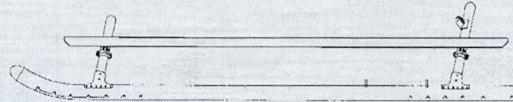


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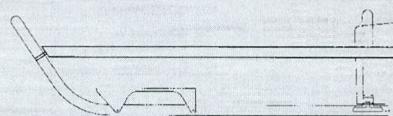
ACCESS STEPS

Heli-Access-Step™

A119/EC 120



D119-675-011



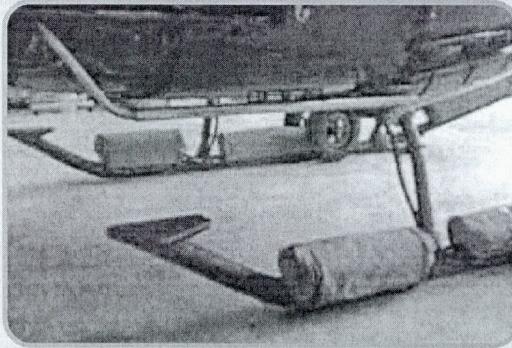
D120-637-011

Heli-Access-Step™

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION	
Canada	LoA SA5010-A329/SA5012-12	Agusta A119	Heli-Access-Step™	
USA	SR00948SE	Agusta A119	Heli-Access-Step™	
Italy	N-CS-021	Agusta A119	Heli-Access-Step™	
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.				
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME	
D119-675-011	Heli-Access-Step™ LH	11.50 lb / 5.20 kg	2 hrs	
D119-675-012	Heli-Access-Step™ RH	11.50 lb / 5.20 kg	2 hrs	
D120-637-011	Heli-Access-Step™ LH	10.00 lb / 4.54 kg	2 hrs	
D120-637-012	Heli-Access-Step™ RH	10.00 lb / 4.54 kg	2 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D119-675-011	Heli-Access-Step™ LH	Clamps include bearings to prevent over stressing from landing gear displacements. Price is per side	A119	\$1,845.00
D119-675-012	Heli-Access-Step™ RH	Clamps include bearings to prevent over stressing from landing gear displacements. Price is per side	A119	\$1,845.00
D120-637-011	Heli-Access-Step™ LH	LH. OEM approved Price is per side	EC 120	\$1,845.00
D120-637-012	Heli-Access-Step™ RH	RH. OEM approved Price is per side	EC 120	\$1,845.00

Step Assembly

AS 350/AS 355



The Step Assembly is designed to provide aircrew and passenger access to the helicopter cockpit or cabin. The step supplements the OEM skid toe mounted step and includes a non-skid surface. The Step Assembly is constructed of high quality aluminum which has been anodized to protect it against corrosion. The Step Assembly is mounted high enough that it may be used with any Apical float configuration (Tri Bag Emergency Floats, Single Bag Emergency Floats). The Step Assembly contains the following:

- One step assembly
- Attaching brackets
- Attaching hardware



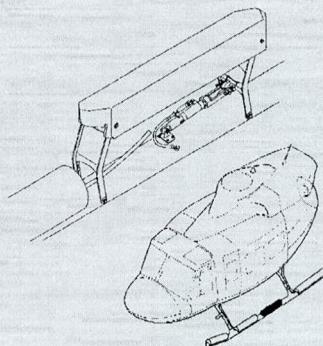
STEP ASSEMBLY

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION	
USA	SR01156LA	AS 350B/B1/B2/B3/BA/C/D/11 / AS 355E/F/F1/F2/N	Step Assembly	
Canada	P-04-0194	AS 350B/B1/B2/B3/BA/C/D/11 / AS 355E/F/F1/F2/N	Step Assembly	
New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.				
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME	
20707-100 LH -200 RH	Step Assembly	23.00 lb / 10.45 kg	20 hrs	
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
20707-100	Step Assembly LH	Kit includes step attaching brackets and hardware	AS 350/AS 355	\$3,680.00
20707-200	Step Assembly RH	Kit includes step attaching brackets and hardware	AS 350/AS 355	\$3,680.00

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Step - Electric Step Replacement Pneumatic Actuator

Bell 412



The Step Actuator Release System replaces electrical linear step actuators with pneumatic actuators. This modification is designed to permit the passenger steps to remain in the extended position at all times with the exception of any actual float inflation. During float inflation, nitrogen released from the storage bottle will cause the actuators to retract and allow the passenger steps to free fall or be forced down by the inflating bag.

ELECTRIC STEP REPLACEMENT PNEUMATIC ACTUATOR

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
USA	SR09400RC	412/412EP	Step Actuator Release System
<i>New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.</i>			
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
41232-1000	Step Actuator	4.00 lb / 1.82 kg	5 hrs
PART NUMBER	PRODUCT DESCRIPTION	AIRCRAFT MODEL	PRICE
41232-1000	Step Actuator	412/412EP	\$3,995.00

Step - Extended Passenger

Bell 412



The Extended Passenger Step is identical in profile and appearance to the External Auxiliary Fuel System, with the obvious exception that the step portion is lengthened to provide greater step area. Aft of the step is a small items storage locker and available area for mounting side-facing flood lights to illuminate the area surrounding the aircraft for such tasks as emergency medical evacuation scene work.

EXTENDED PASSENGER STEP

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
USA	SH7929SW	412	Extended Passenger Step
<i>New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.</i>			
PART NUMBER	PRODUCT DESCRIPTION	KIT WEIGHT	INSTALLATION TIME
41252-100-001-001	Extended Passenger Step	164.00 lb / 74.55 kg	8 hrs
PART NUMBER	PRODUCT DESCRIPTION	AIRCRAFT MODEL	PRICE
41252-100-001-001	Extended Passenger Step	412	\$49,995.00

FOR CURRENT PRODUCT OFFERINGS VISIT WWW.DARTHELIOTOPERSERVICES.COM

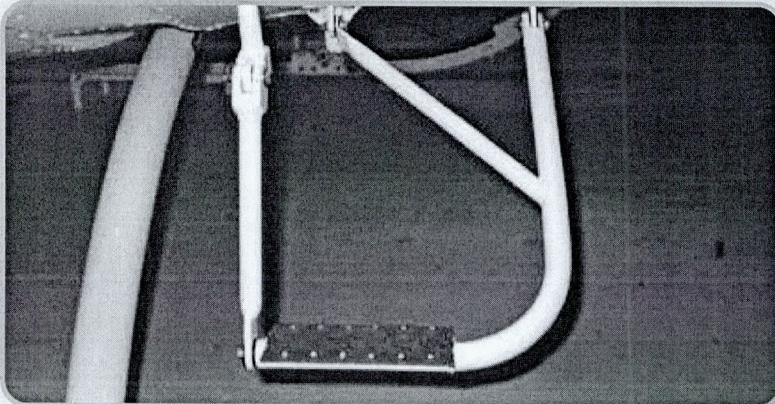
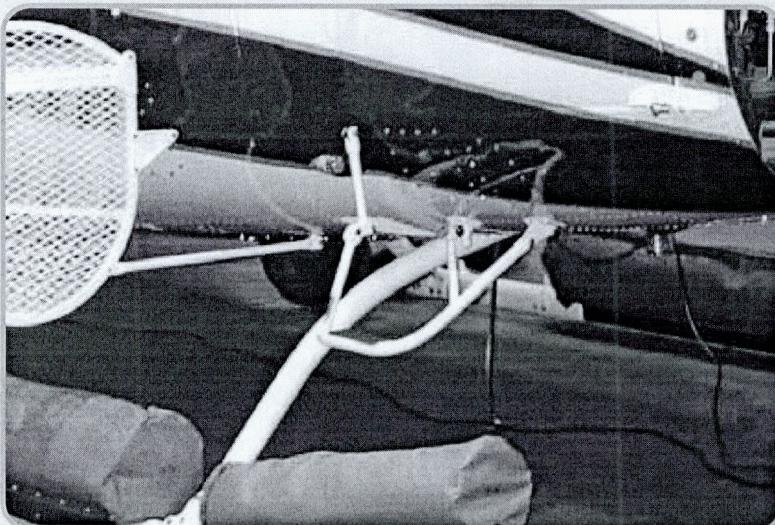


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ACCESS STEPS

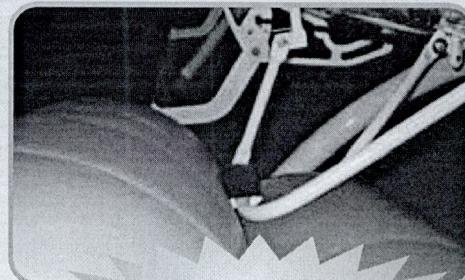
Step - Pilot/Co-Pilot Folding Step

Bell 205/210/212/214/412/UH-1



No longer do you have to decide what's the best way to get into the aircraft without pulling a muscle.

Getting in and out of a medium Bell aircraft has always been a stretch for pilots and co-pilots. The new Pilot / Co-Pilot Folding Step eases crew access to the aircraft without compromising long lining capability or interfering with float systems.



Compatible with all
D412-630 Steps



PILOT/CO-PILOT FOLDING STEP

APPROVAL	STC NUMBER	A/C APPROVED	STC DESCRIPTION
Canada	SH96-69	205A/205A1/205B/212/214B/214B1/412/412CF/412EP	Pilot/Co-Pilot Folding Step
USA	SR00597NY	214B/214B1	Pilot/Co-Pilot Folding Step
USA	SR00595NY	205A/205A1/205B	Pilot/Co-Pilot Folding Step
USA	SR00598NY	212/412/412CF/412EP/AB412/AB412EP	Pilot/Co-Pilot Folding Step
Japan	STC-112-1-TYO	212/412/412EP	Pilot/Co-Pilot Folding Step
EASA	EASA.I.M.R.S.01204	205A/205A1/205B/212/214B/214B1/412/412EP	Pilot/Co-Pilot Folding Step

New approvals are continually being added; if you do not see your required approval, contact your DART sales office to verify the status.

PART NUMBER	PRODUCT DESCRIPTION		KIT WEIGHT	INSTALLATION TIME
D412-630-031	Pilot/Co-Pilot Folding Step LH		7.00 lb / 3.17 kg	4 hrs
D412-630-032	Pilot/Co-Pilot Folding Step RH		7.00 lb / 3.17 kg	4 hrs
PART NUMBER	PRODUCT DESCRIPTION	SPECIAL COMMENTS	AIRCRAFT MODEL	PRICE
D412-630-031	Pilot / Co-Pilot Folding Step LH	Float compatible, installs at STA 63 & 53.5. Compatible with all D412-630 Steps.	205/210/212/214/412/UH-1	\$1,695.00
D412-630-032	Pilot / Co-Pilot Folding Step RH	Float compatible, installs at STA 63 & 53.5. Compatible with all D412-630 Steps.	205/210/212/214/412/UH-1	\$1,695.00

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+ -11.791

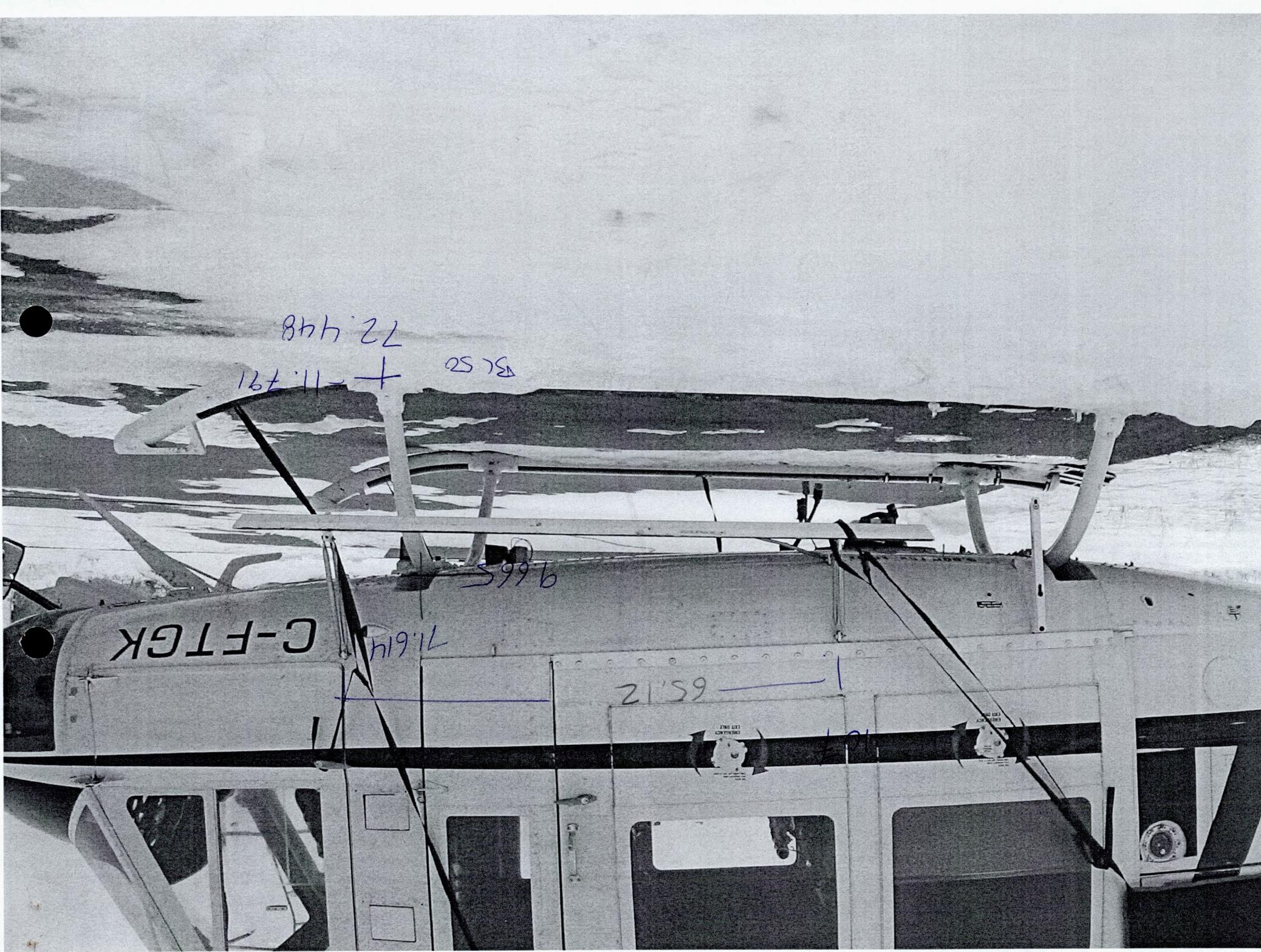
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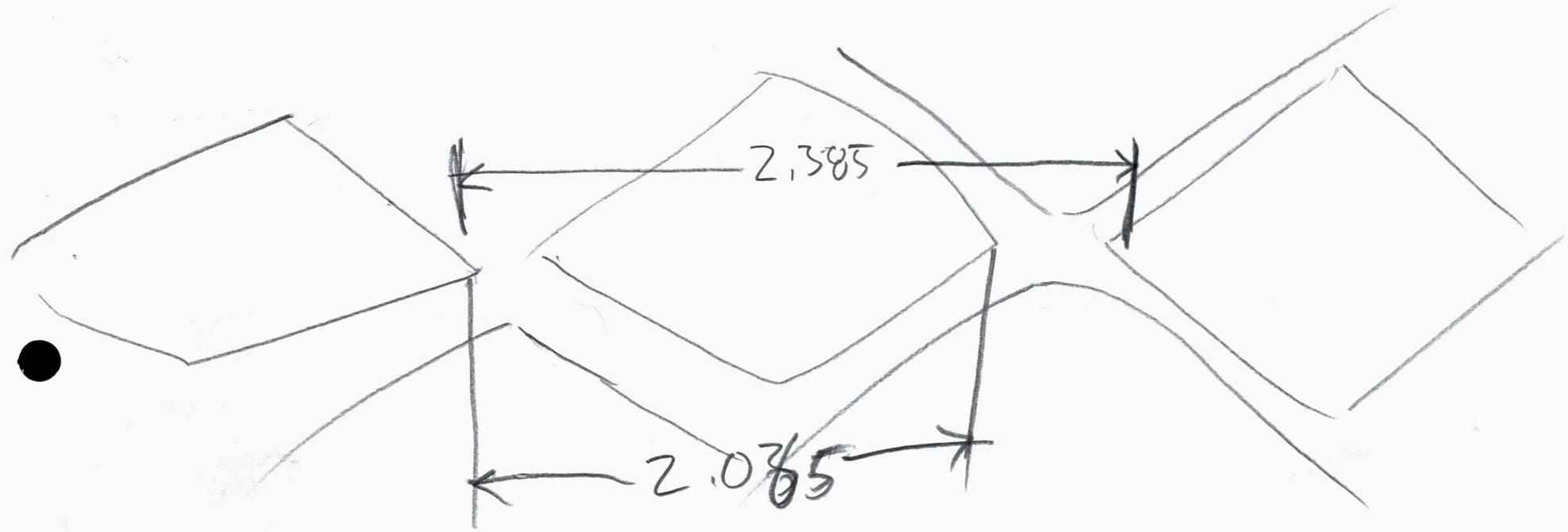
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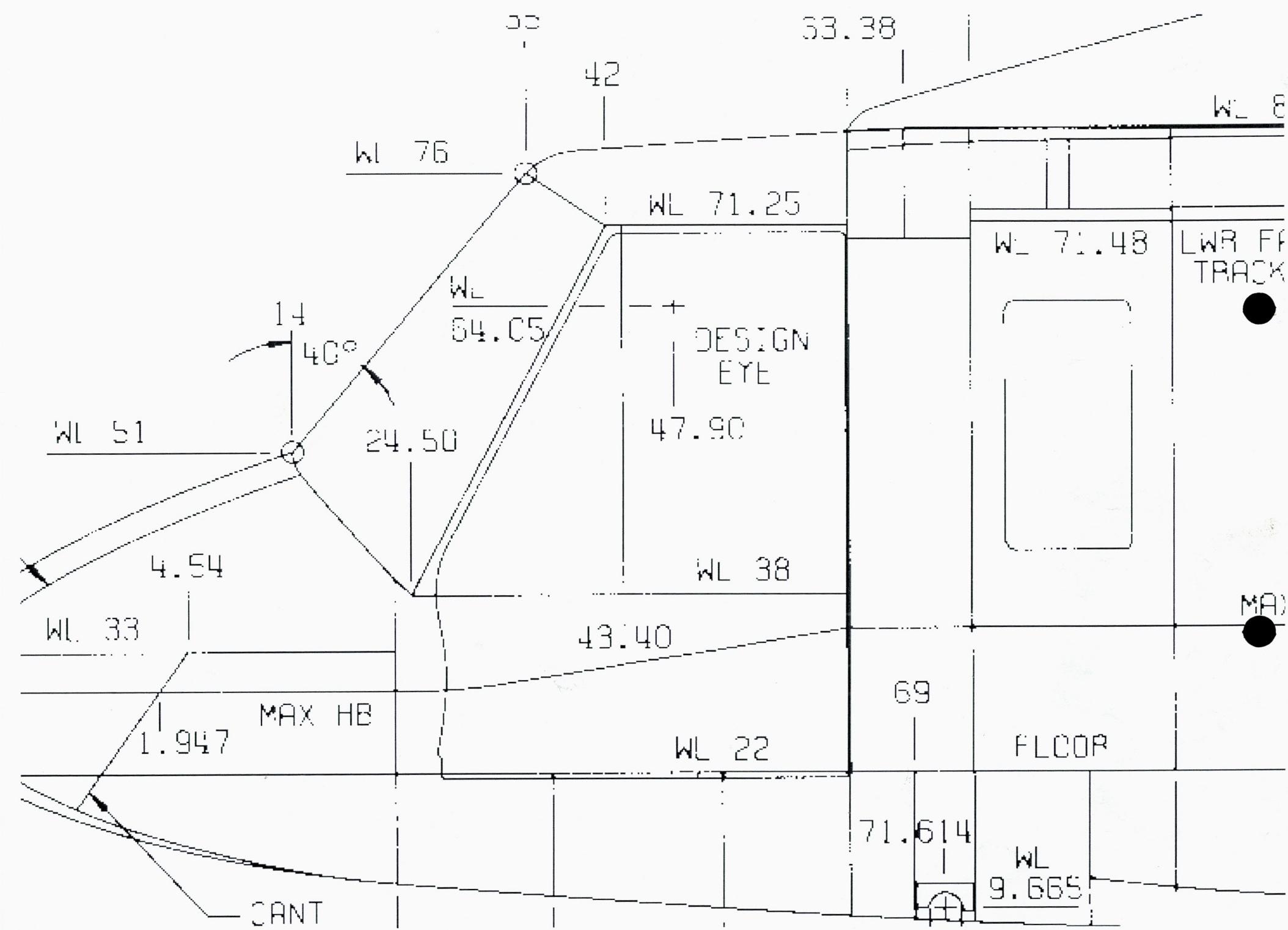
C-FTGK





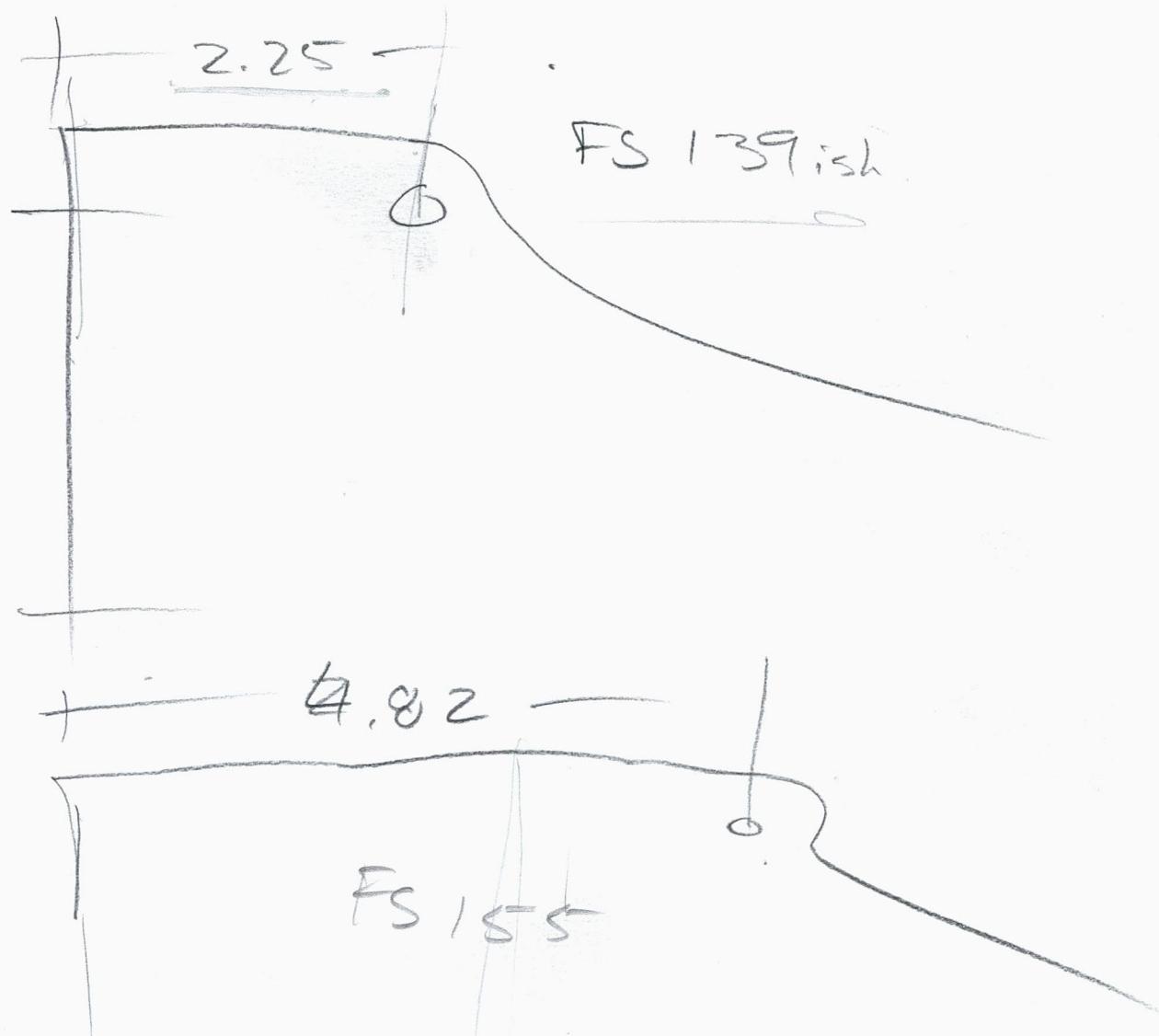
92 $\frac{7}{8}$ ft to ft

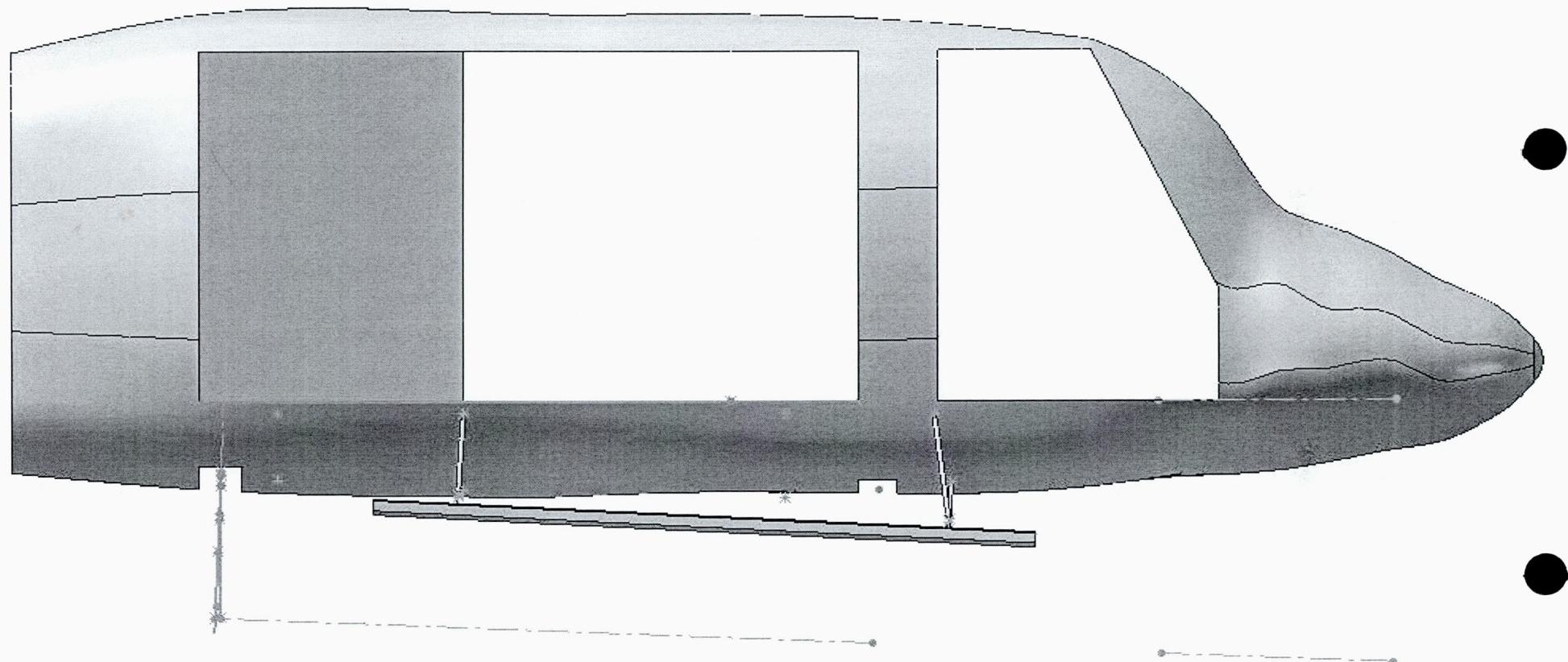
96 $\frac{3}{8}$ ft to ft



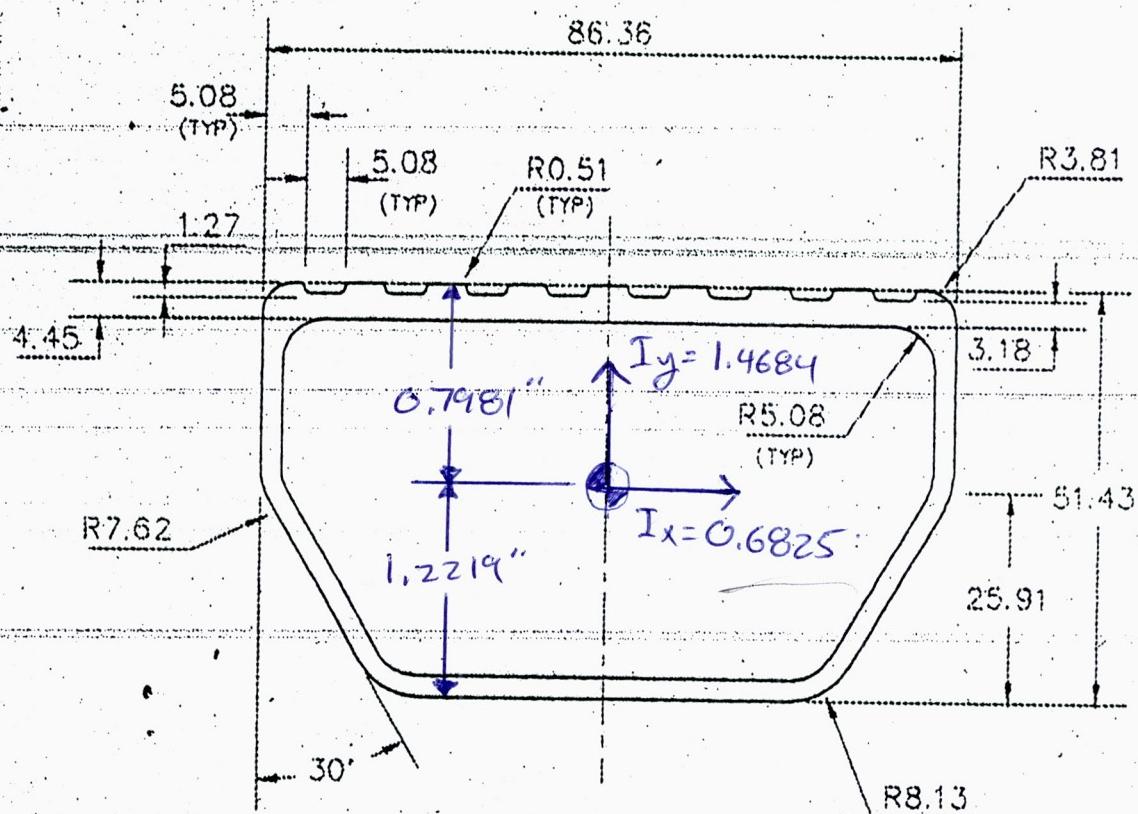
Fwd 75115-01

Aft 75136-01





EXPOSED ALL AROUND



A C T U A L S I Z E

Alloy and Temper Designations

Alloy	Temper	Specified Section or wall thickness (Inches)	Tensile Strength, (ksi)		Yield Strength (0.2 % offset) ksi		Elongation % in 2 in. Min	Webster Readings
			Min	Max	Min	Max		
6060	T51	up through 0.125	22.0	---	16.0	---	8	9 - 12
		up through 1.000	22.0	30.0	16.0	25.0	8	9 - 12
6060	T61	up through .124	30.0	---	25.0	---	8	11 - 13
		0.125 - 1.000	30.0	---	25.0	---	10	11 - 13
6063	F Will Naturally Age	All	---	19.0	---	---	18	0 - 2
6063	T1 Will Naturally Age	up through 0.500	17.0	---	9.0	---	12	2 - 3
		0.501 - 1.000	16.0	---	8.0	---	12	2 - 3
6063	T4 Will Naturally Age	up through 0.500	19.0	---	10.0	---	14	2 - 5
		0.501 - 1.000	18.0	---	9.0	---	14	2 - 4
6063	T5	up through 0.500	22.0	---	16.0	---	8	9 - 12
		0.501 - 1.000	21.0	---	15.0	---	8	9 - 12
6063	T52	up through 1.000	22.0	30.0	16.0	25.0	8	7 - 8
6063	T6	up through 0.124	30.0	---	25.0	---	8	11 - 13
		0.135 - 1.000	30.0	---	25.0	---	10	11 - 13
6063	* T5 511	up through 0.500	22.0	---	16.0	---	9	9 - 12
		0.501 - 1.000	21.0	---	15.0	---	9	9 - 12
6609 (6063)	F Will Naturally Age	All	---	19.0	---	---	18	0 - 2
6609 (6063)	T1 Will Naturally Age	up through 0.500	17.0	---	9.0	---	12	2 - 3
		0.501 - 1.000	16.0	---	8.0	---	12	2 - 3
6609 (6063)	T4 Will Naturally Age	up through 0.500	19.0	---	10.0	---	14	2 - 5
		0.501 - 1.000	18.0	---	9.0	---	14	2 - 4
6609 (6063)	T5	up through 0.500	22.0	---	16.0	---	11	9 - 12
		0.501 - 1.000	21.0	---	15.0	---	11	9 - 12
6609 (6063)	T6	up through 0.124	30.0	---	25.0	---	9	11 - 13
		0.135 - 1.000	30.0	---	25.0	---	10	11 - 13
6608 (6063)	T54	up through .500	33.0	---	30.0	---	8	13 - 15
		0.501 - 1.000	33.0	---	30.0	---	10	13 - 15
6005A	T1 Will Naturally Age	up through .250	25.0	---	14.0	---	15	1 - 7
6005A	T4 Will Naturally Age	up through .250	25.0	---	15.0	---	16	1 - 7
6005A	T5	up through .250	38.0	---	31.0	---	7	13 - 16
6005A	T61	up through .250	38.0	---	35.0	---	8	15 - 16
6061	F Will Naturally Age	All	---	22.0	---	16.0	16	0 - 5
6061	T1 Will Naturally Age	up through 0.625	26.0	---	14.0	---	16	1 - 7
6061	T4 / T4 511	All	26.0	---	16.0	---	16	1 - 7
6061	T5	up through 0.625	35.0	---	30.0	---	8	13 - 16
6061	T6 / T6 511	up through 0.249	38.0	---	35.0	---	8	15 - 17
		0.250 and over	38.0	---	35.0	---	10	15 - 17
6351	T1	up through 0.499	26.0	---	13.0	---	15	1 - 7
6351	T4	up through 0.749	32.0	---	19.0	---	16	1 - 7
6351	T5	up through .249	38.0	---	35.0	---	8	13 - 16
		0.250 and over	38.0	---	35.0	---	10	15 - 17
6351	T6	up through .124	42.0	---	37.0	---	8	15 - 17
		0.125 - 0.749	42.0	---	37.0	---	10	15 - 17

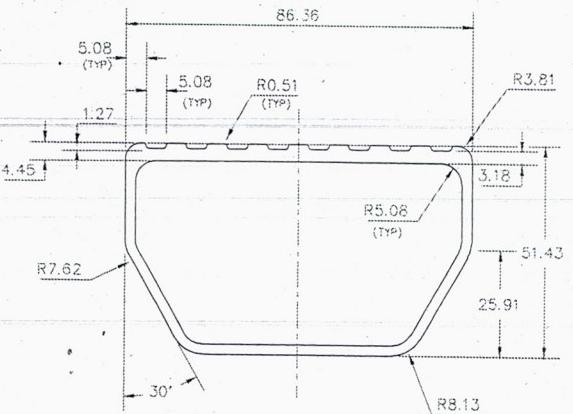
Note : T_511 - Stress Relieved Temper (1 to 3 % Permanent Set)

The "511" gives the directive to use "Minimum Stretch"

Applies to extruded rod, bar, shapes, and tubes when stretched the indicated amounts after solution

heat treatment or after cooling from an elevated temperature shape process. These products may receive minor straightening after stretching to comply with standard tolerances

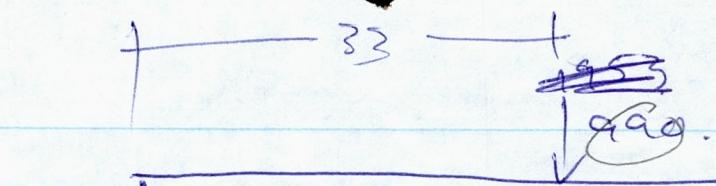
EXPOSED ALL AROUND



ACTUAL SIZE

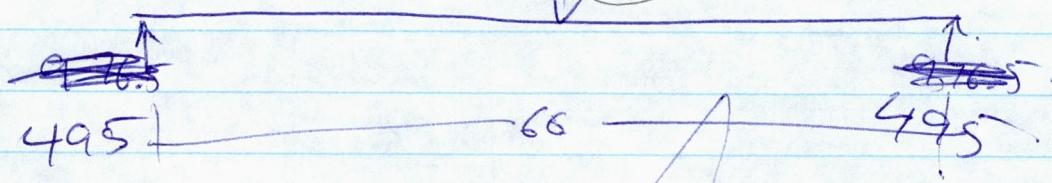
Caradon Indalex

WALL THICKNESS	0.100 IN 2.54 MM	EXCEPT AS SHOWN	PRILING	LIN	CHUCKING GAUGE	FEED	LIN SPINDLE	V.L.S.
EST. AREA	1.122 IN ²	723.90 MM ²	BUUT PER	10.308 IN	261.83 MM	BACKER NO.	BACKER SIZE	BUUT L.G.
EST. WT.	1.346 LB _{FT}	1.963 KG/M	FACTOR	14 / 248		BACKER L.G.	FEEDER NO.	
EST. PER	19.188 IN	487.38 MM	C.C.B.	3.487 IN	88.57 MM	BACKER NO.	BACKER L.G.	CAV. 1
OWN BY	ALDLY 6061-T6	SCALE 1:1	DATE	97/9/11	PRISSE NO. 2	CONT'D 1AB	EXT. RATIO 38	
BREAK ALL CORNERS .010"R (.025R) UNLESS OTHERWISE NOTED.								
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED								



$$F = 217.3 \text{ lb wt/pers}$$

~~3~~ pers



* 1.5

$$\frac{217.3}{66} \times 1.5 = 52.05 \text{ lb}$$

$$2.031$$

$$-.8$$

$$= \underline{\underline{1.23}}$$

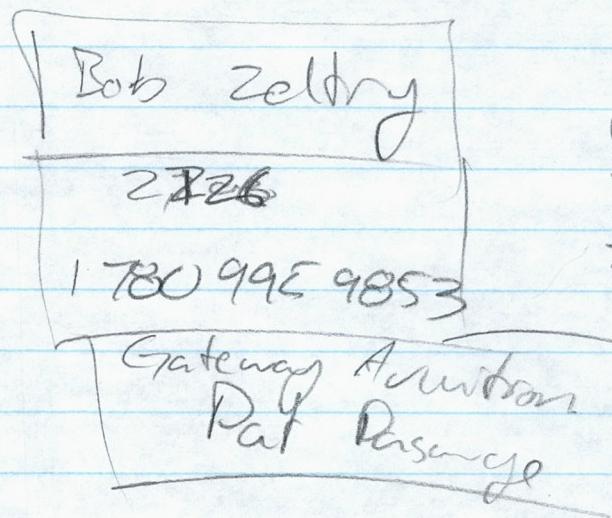
$$I_x = 0.55$$

$$c = 1.23$$

$$\frac{32225 \times 1.23}{0.55}$$

$$\frac{16,350 \times 1.23}{0.55} = .36.564 \text{ psi}$$

What ever



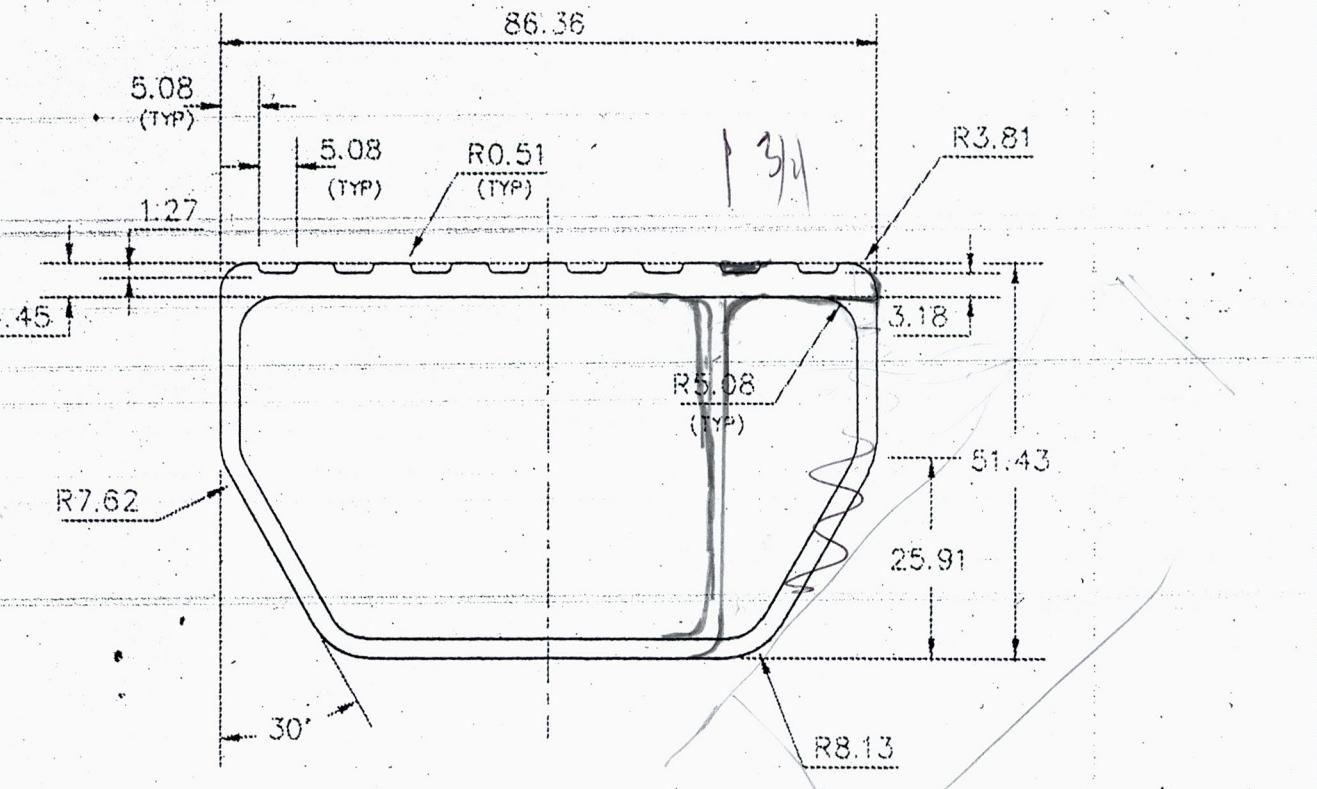
48.52.

36.37.

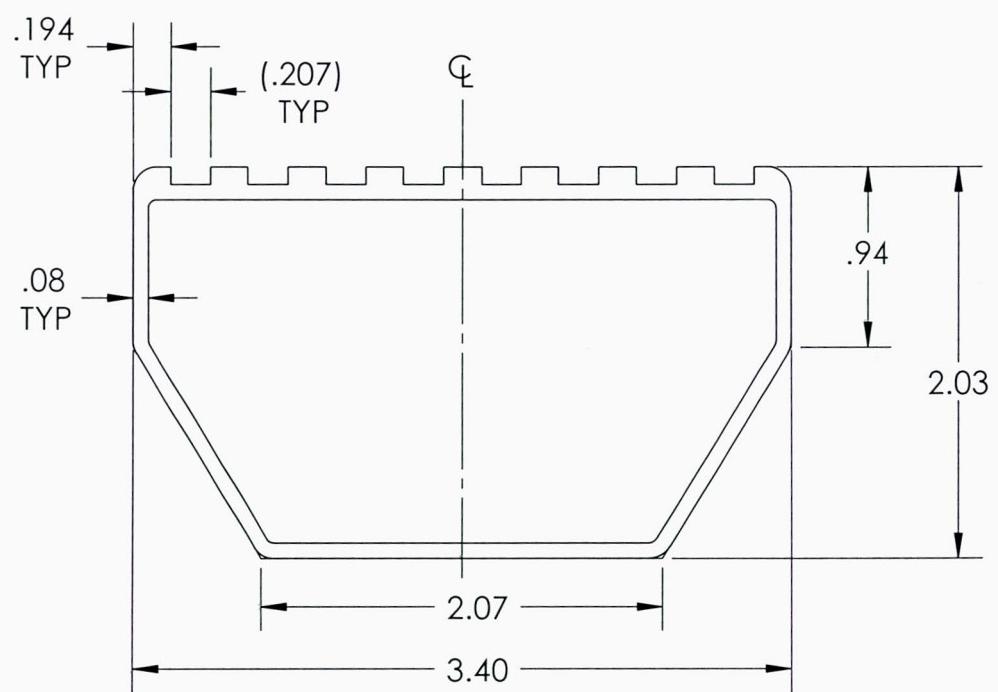
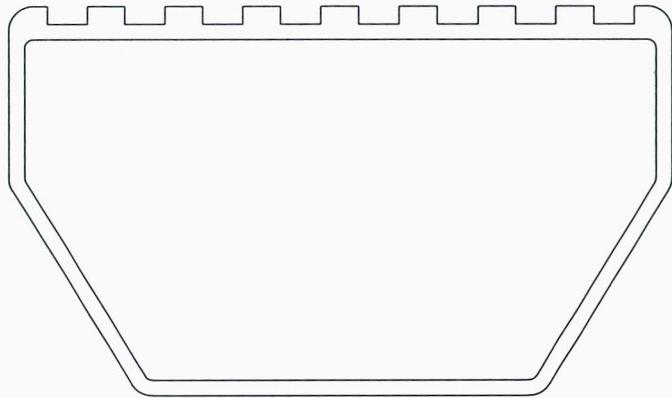
45.95
35.54

189%

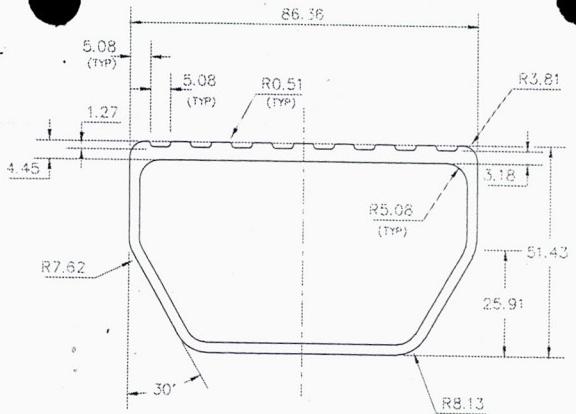
EXPOSED ALL AROUND

ACTUAL SIZE

radon Indalex		PRILING PC	CHECKING SAWING YES NO	LUB. INTRUSION YES NO	TYPE
00 IN 2.54 MM	EXCEPT AS SHOWN	BACKER SIZE		FEEDER SIZE	
IN ² 723.90 MM ²	OUT PER 10.308 IN 261.83 MM	BACKER NO.		FEEDER NO.	
BSA FT 1.963 KG/4	FACTOR .14 / .248	BACKER L.E.C.		FEEDER L.E.C.	
IN 487.38 MM	C.C.B. 3.487 IN 88.57 MM	ROLLER NO C1662	ROLLER NO C9	CAY.	
ALLOY 6061-T6	SCALE 1:1 DATE 97/9/11	PRESS NO 2	CONT'D 188	EXT. RATIO 38	
CORNERS .010"R (.25MM) UNLESS OTHERWISE NOTED.		STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED			



EXPOSED ALL AROUND

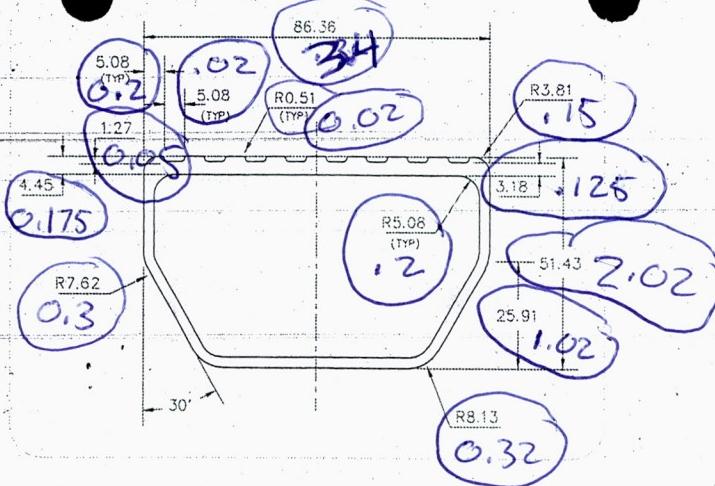


ACTUAL SIZE

Caradon Indalex		PRILING	W.L.	CHAMFER SIZES	END BEVELS	END RADIUS
WALL THICKNESS	0.100 ± 2.54 MM EXCEPT AS SHOWN	PRLING	W.L.	CHAMFER SIZES	END BEVELS	END RADIUS
EST. AREA 1.122	IN ² 723.90 MM ²	PR 10.308	IN 261.83 MM	ANGLE SIZE	DETER. SIZE	
EST. WT. 1.346	LBS/FT 1.963 KG/M	FACTR 14 / 248	BREAK NO.	DETER. NO.		
EST. PER 19.188	IN 487.38 MM	C.C.B. 3.487 IN 88.57 MM	NUMBER LIZ	DETER. NO.		
DRAWN BY	MUD 6081-T6	SCALE 1:1 DATE 97/9/11	PR 05 NO. 2	ENDP 128	ENDP 128	TEXT RATIO 3:9
BREAK ALL CORNERS .010"R (.025R) UNLESS OTHERWISE NOTED.						
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED						

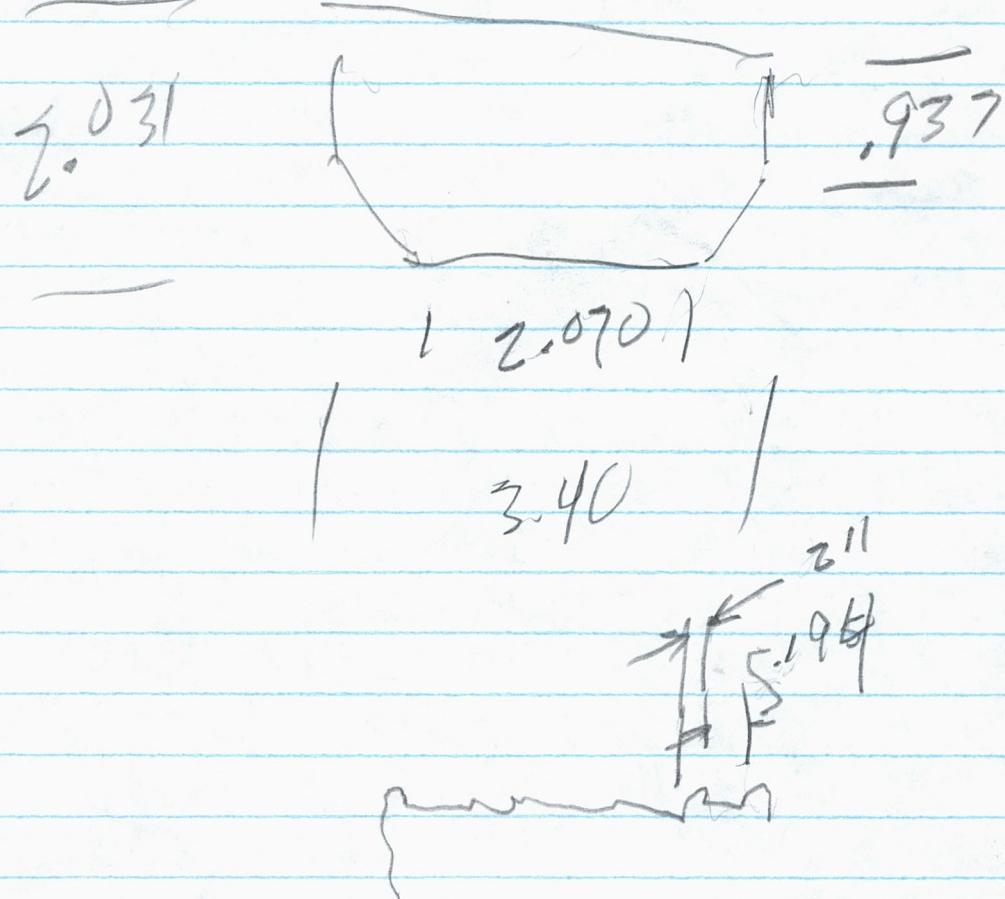
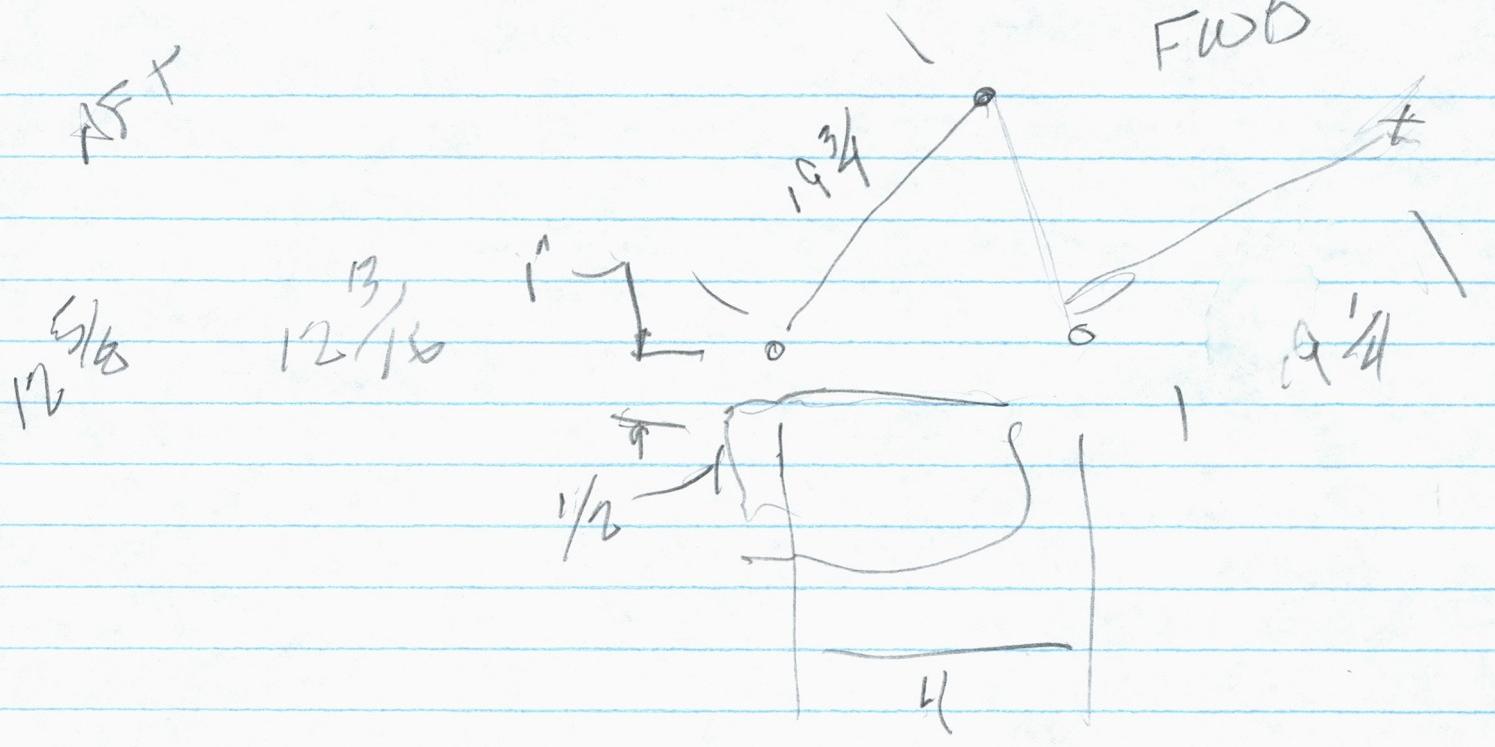
6005A
, 161
, 1000' WATER LINE
365°
365°
FINISH.
18305-8 HPS.

EXPOSED ALL AROUND



A C T U A L S I Z E

Caradon Indalex		PRELIM. QTY	CHUCKING DIA.	Y.E.S.	NO	REV.
		1 PC	IN. MM			
WALL THICKNESS	0.100 IN 2.54 MM EXCEPT AS SHOWN					
EST. AREA	1.122 IN ² 723.90 MM ²					
BUT PER	10.308 IN 261.83 MM					
EST. WT.	1.346 LBS/FT 1.963 KG/M FACTOR 14 / 248					
EST. PER	19.188 IN 487.38 MM C.C.D. 3.487 IN 88.57 MM					
DWN BY	ALLDY6061-T6	SCALE 1:1	DATE 97/9/11	PRESS NO 2	CONT'D 188	EXT. RATIO 38
BREAK ALL CORNERS .100"R (0.25M) UNLESS OTHERWISE NOTED.						
STANDARD TOLERANCES TO APPLY UNLESS OTHERWISE SPECIFIED						



Fwd.

